ZS-M1

SERVICE MANUAL

US Model
Canadian Model
AEP Model
UK Model

Model Name Using Similar Mechanism	MZ-1
Mechanism Deck Type	MT-MZ1-106
Optical Pick-up Block Type	KMS-130B

SPECIFICATIONS

MD recorder section

System	MiniDisc digital audio system
Laser diode properties	Material: GaAlAs Wavelength: λ = 780 nm Emission duration: continuous Laser output: less than 44.6 μW (This output is the value measured at a distance of 200 mm from the lens surface on the optical pick-up block.)
Revolutions	400 rpm to 900 rpm (CLV)
Error correction	Advanced Cross Interleave Reed Solomon Code (ACIRC)
Sampling frequency	44.1 kHz
Modulation system	EFM (Eight-to-Fourteen Modulation)
Number of channels	2 stereo channels
Frequency response	20 to 20,000 Hz ± 1 dB
Wow and Flutter	Below measurable limit

Radio section

Frequency range	FM: US, Canadian model 87.6 - 108MHz Italian model 87.5 - 108 MHz Other countries 87.6 - 107 MHz AM: US, Canadian model 530 - 1710KHz other countries 531 - 1602KHz
IF	FM: 10.7 MHz AM: 450 kHz
Aerials	FM: Telescopic aerial AM: Loop aerial (supplied)

General

Speaker	Full-range: 8 cm dia., cone type, 6 Ω x 2
Inputs	OPTICAL DIGITAL IN (LINE) jack: Wavelength 660 ± 30 nm LINE IN jack (stereo minijack): Sensitivity 440 mV
Outputs	Headphones jack (stereo minijack): For 32 - 64 Ω impedance headphones OPTICAL DIGITAL OUT (MD) jack: Wavelength 660 ± 30 nm LINE OUT jack (stereo minijack): Rated output 380 mV Load impedance 47 kΩ
Power output	7.5 W + 7.5 W (100 -10,000 Hz, at 6 Ω, 1% harmonic distortion)
Power requirements	For personal MD system: UK model: 240 V AC, 50 Hz European model: 220 - 230 V AC, 50 Hz US, Canadian model : 120V AC, 60Hz For remote commander: DC 3V, lithium battery (CR-2025) (1)
Power consumption	Canadian model 35W Other countries 30W
Dimensions	480 x 148 x 190 mm (w/h/d) (19 x 5 7/8 x 7 1/2 inches) incl. projecting parts
Mass	5.8 kg (12 lb 12 oz)
Supplied accessories	Mains lead (1) Remote commander (1) (RMT-CM1) AM loop aerial (1)

Design and specifications subject to change without notice.

Note
This appliance conforms with EEC Directive 87/308/EEC regarding interference suppression.

Optional accessories

Stereo Headphones: MDR-D33, MDR-D55, MDR-D77
Line Cable (stereo mini-jack ↔ stereo mini-jack): RK-G136
Optical Cable: POC-5, POC-10, POC-15, POC-DA12, POC-MZ1
Recordable MDs: MDW-60, MDW-74
Carrying Case: CK-MD4
Filing Box: CK-MD10

MICROFILM

PERSONAL MINIDISC SYSTEM

SONY®

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Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT

This Compact Disc player is classfied as a CLASS 1 LASER product.
The CLASS 1 LASER product label is located on the rear exterior.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

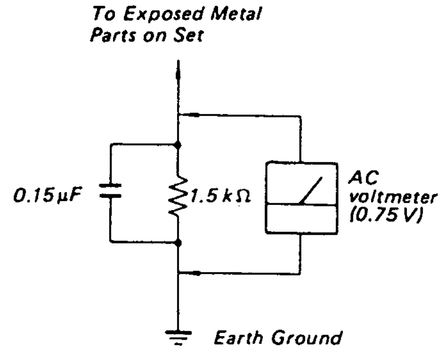


Fig. A. Using an AC voltmeter to check AC leakage.

REPLACEMENT OF ANTENNA

Antenna can be replaced without disassembling the unit.

(Removal)

1. Remove the screw on the bottom of the unit.
2. Pull off the antenna.

(Mounting)

1. Insert the antenna from the hole on the top.

※ For easy mounting, push in the second pole a little to prevent rotation.

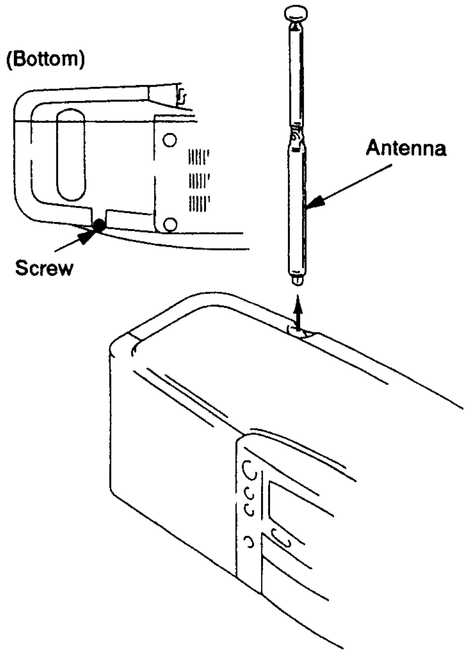
※ Antenna may get stuck on a half way by interference with the antenna terminal board. In this case, move antenna back and forth for further insertion.

2. Meeting hole in the bottom of the unit with the bottom of the antenna, push in the antenna.

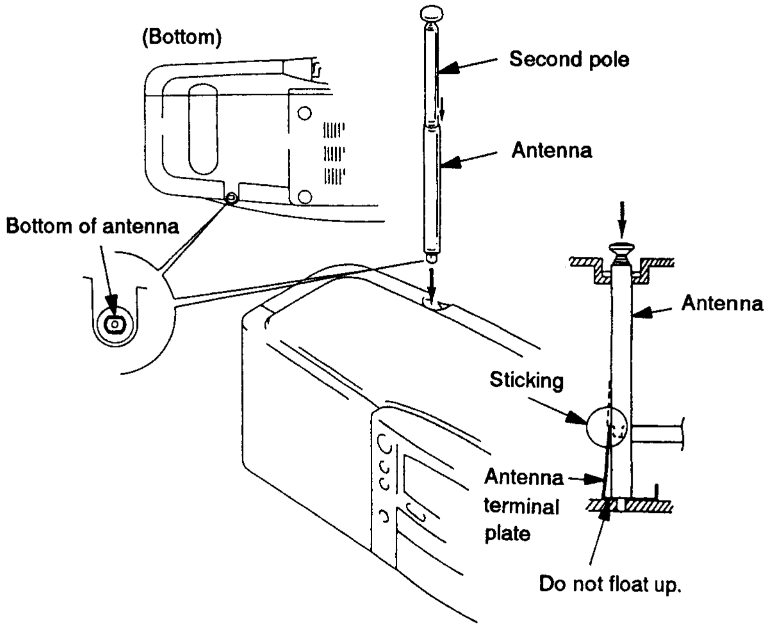
   Note: Push in the antenna completely to ensure contact with antenna terminal board.

3. Tighten the screw.

Removal


(Bottom)
Antenna
Screw

Mounting


(Bottom)
Second pole
Antenna
Bottom of antenna
Antenna
Sticking
Antenna terminal plate
Do not float up.

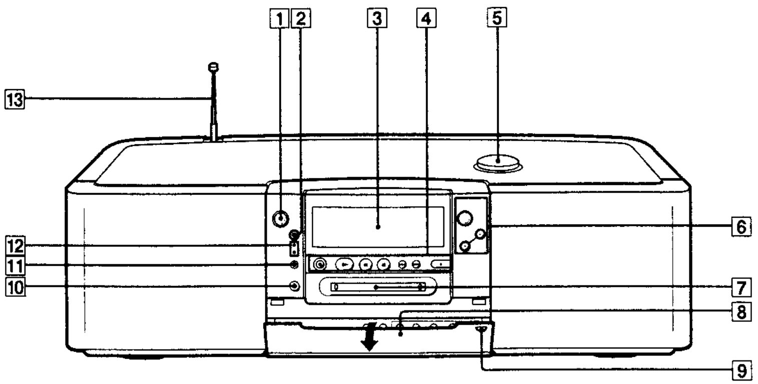
SECTION 1
GENERAL

This section is extracted from instruction manual.

Looking at the Controls

See pages in ( ) for more details.

Top panel/Front panel



1 POWER switch

2 FUNCTION button
Press to select MD, RADIO or LINE as the source.

3 Display window *(7-E)*

4 MD operation buttons *(14, 18, 20-E)*
● Record
► Play
❚❚ Pause
■ Stop
⏮ / ⏭ AMS (Automatic Music Sensor)
⏏ Eject

5 VOLUME control

6 RADIO operation buttons
BAND *(30-E)*
PRESET *(31-E)*

7 Disc compartment *(12, 18, 20-E)*

8 Sub-control panel

9 Sub-control panel OPEN ▼ tab

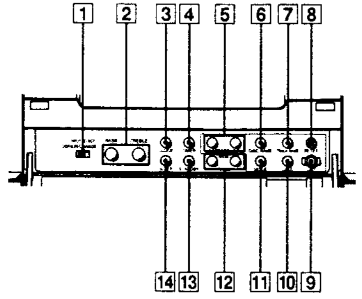
10 PHONES (headphones) jack (stereo mini-jack)

11 Remote sensor

12 OPERATION and STANDBY indicators
The STANDBY indicator lights up to indicate that the player is connected to the mains. This indicator lights regardless of whether the power is on or off.

13 Telescopic aerial *(30-E)*

Behind the sub-control panel



1 INPUT SELECT selector *(19-E)*

2 Tone controls
BASS (low-frequency sound)
TREBLE (high-frequency sound)

3 CLOCK button *(10-E)*

4 TIMER button *(35, 36, 37, 38-E)*

5 ◀◀ / ▶▶ SEARCH buttons *(12-E)*

6 DISC NAME button *(13-E)*

7 TRACK NAME button *(13-E)*

8 RESET button *(41-E)*
Use only to eliminate instability in microcomputer control caused by variations in power supply characteristics.

9 EDIT button *(22, 23, 24, 26, 27, 28-E)*

10 DATE button *(13-E)*

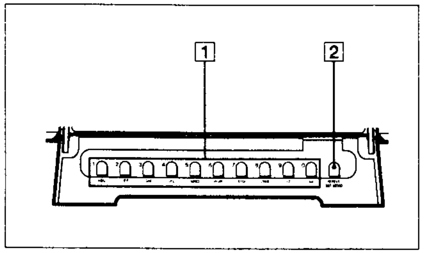
11 MODE button *(14, 15, 16, 31-E)*

12 TIME SET/TUNING buttons *(30, 31, 35, 37-E)*

13 STANDBY button *(36, 38-E)*

14 SLEEP button *(34-E)*

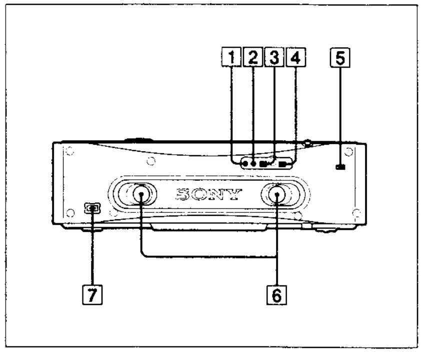
On the sub-control panel



1 Numeric buttons *(11, 13, 16, 31, 36, 38-E)*

2 REPEAT/ENT/MEMO button *(11, 16, 17, 31-E)*

Rear panel



1 LINE OUT jack *(39-E)*

2 LINE IN jack *(19-E)*

3 OPTICAL DIGITAL OUT (MD) jack *(39-E)*

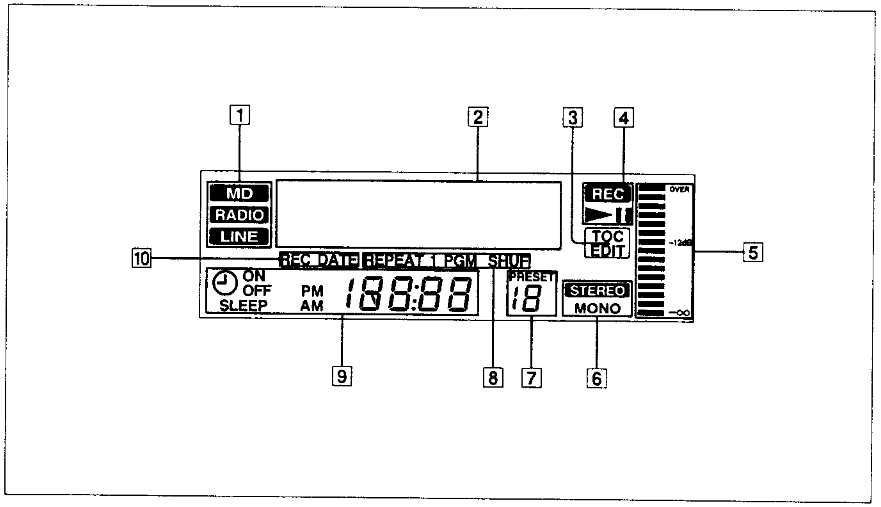
4 OPTICAL DIGITAL IN (LINE) jack *(19-E)*

5 AM EXT ANT (AM loop aerial) terminal *(10-E)*

6 Ducts for powerful bass sound

7 AC IN (AC power input) socket *(9-E)*

Display window



1 Function indicators
Indicates MD, RADIO or LINE as the current source.

2 Character information display
Displays the disc and track names, date and time.

3 TOC EDIT indicator
Lights up during MD recording or editing.

4 MD operation mode indicators
► indicates the MD is playing; II indicates the MD has paused; REC indicates the MD is recording.

5 Level meter
Shows the signal level during MD recording and playback.

6 Radio mode indicator
STEREO lights up during stereo programme reception and MONO during monaural programme reception.

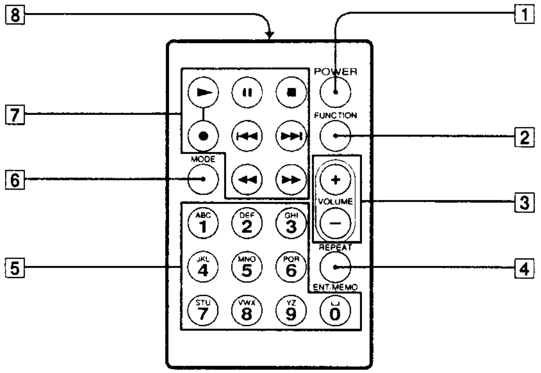
7 PRESET indicator
Lights up during setting or recall of preset radio stations (1 to 12).

8 Play mode indicators
1: lights during single-track play.
PGM: lights during programme play .
SHUF: lights during shuffle play.
REPEAT: lights when the repeat function is on.

9 Timer/frequency indicators
ON: Lights up with the timer-on time.
OFF: Lights up with the timer-off time.
⊕ : Lights up when the timer is set.
SLEEP: Lights up when the sleep function is on.
FM•AM: Lights up with the corresponding station frequency during radio operation.

10 REC DATE/DATE indicators
REC DATE: Lights up with the recording date of the inserted MD.
DATE: Lights up with the current date.

Remote commander (card type)



Controls on the remote commander with the same name as those on the deck have the same function.

1 POWER switch

2 FUNCTION button
Selects MD, RADIO (FM), RADIO (AM) or LINE as the current source.

3 VOLUME buttons

4 REPEAT/ENT/MEMO button

5 Numeric buttons

6 MODE button

7 MD operation buttons
▶ Play
❚❚ Pause
■ Stop
● Record
⏮ / ⏭ AMS (Automatic Music Sensor)
◀◀ / ▶▶ Search

8 Command emitter
Point toward the remote sensor on the unit.

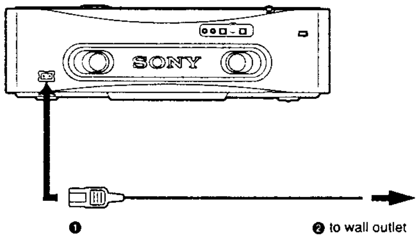
Notes on the remote commander

- To avoid malfunction, keep the commander away from direct sunlight or strong illumination.
- See *Installing the lithium battery in the remote commander* on page 9-E for instructions on changing the battery.

Preparing Power Sources

Connecting to house current

Insert one end of the supplied mains lead into the AC IN socket located at the rear of the player ❶ and the other end into a wall outlet ❷ .

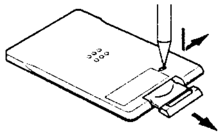


Note
Before unplugging the mains lead, be sure to turn the unit off by pressing the POWER switch. The unit will retain the previous clock (timer), MD and radio settings for about 10 minutes after you unplug the mains lead. If the unit is left unplugged for more than 10 minutes or if you failed to press POWER to turn the unit off before unplugging the mains lead, the settings and the current time and date are canceled. In this case, connect the mains lead to the wall outlet again and reenter the various settings.

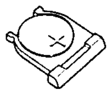
Installing the lithium battery in the remote commander

Your remote commander comes with a factory installed lithium battery. When this battery becomes too weak for normal operations, replace it with a new one using the procedure below.

1 Press down on the notch with a pen tip and slide out the battery holder.



2 Install a new Sony CR-2025 lithium battery with the + (plus) side facing up.



3 Slide the holder back in.

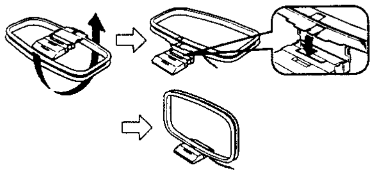
Warning!

- Keep the lithium battery out of the reach children. Should the battery be swallowed, immediately consult a doctor.
- Wipe the battery with a dry cloth to assure good contact.
- Be sure to install the battery with the correct polarity.
- Do not hold the battery with tweezers. Doing so may cause a short-circuit.
- Do not crush the battery or dispose of it in a fire. Doing so may cause it to explode. Carefully dispose of the used battery.

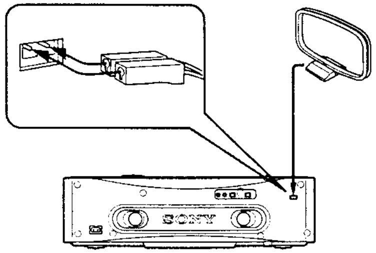
Connecting the AM Aerial

To receive AM stations, connect the AM loop aerial using the procedure below.

1 Prepare the aerial as shown below.



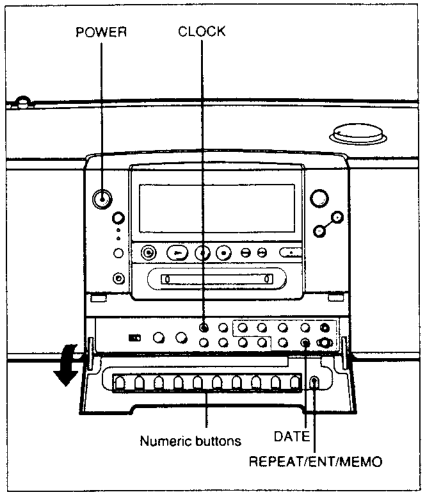
2 Connect the aerial to the AM EXT ANT terminal.



Note
To minimize noise interference from the player section, locate the AM loop aerial away from the player during AM programme reception.

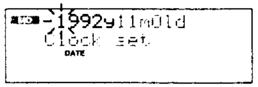
Setting the Clock

In order to use the time and date stamp function for MD recordings, use the procedure below to set the system clock.

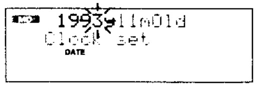


1 Press POWER.
Press FUNCTION to select MD or LINE.
(The clock cannot be set when RADIO is selected.)

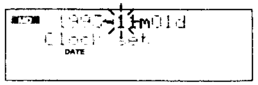
2 Keep pressing CLOCK for about 4 seconds.
The first digit of the year flashes.



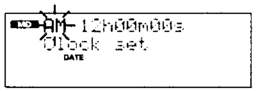
3 Enter the current year by pressing the numeric buttons.
For example, to enter the year 1993, press 1, 9, 9 and 3.



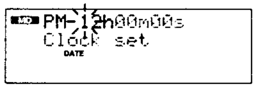
4 Press REPEAT/ENT/MEMO.
The year is stored in memory and the first digit of the month flashes.



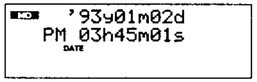
5 Repeat steps **3** and **4** and enter the current month and day.
In case of single-digit months or days, enter 0 first, then the corresponding digit.
After the day is stored in memory, set the time.



6 Choose either AM or PM by pressing DATE, then press REPEAT/ENT/MEMO.
The first digit of the hour begins flashing.



7 Enter the hour, then the minutes as you did for the month and day in steps **3** and **4**.
Pressing REPEAT/ENT/MEMO after the minutes setting starts the operation of the clock.



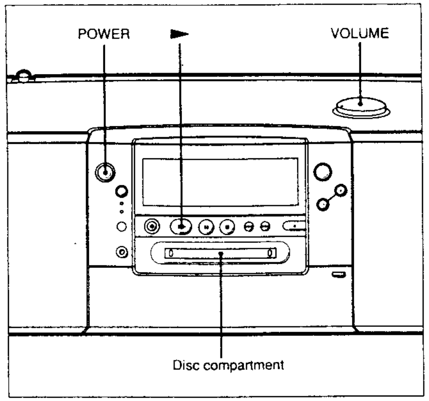
If you make a mistake while setting the time and date
Press ■, then start again from the step **2**. To skip items that do not require resetting, press TIME SET (+) and REPEAT/ENT/MEMO until the desired item begins flashing.

To display the current date
Press DATE in stop mode. The date display is canceled after 10 seconds or when you press DATE again. However, the current date cannot be displayed when RADIO is selected.

To display the time using a 24-hour system
Press DATE in stop mode to display the time, then press REPEAT/ENT/MEMO. You can set the clock using the 24-hour system as well. However, the current date cannot be displayed when RADIO is selected.

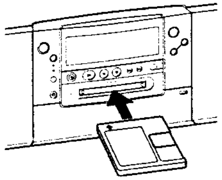
Playing an MD (Normal Play)

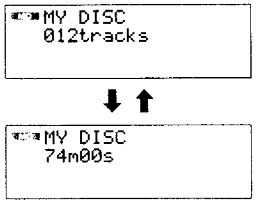
Follow the procedure below to listen to an MD.



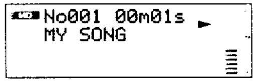
1 Press POWER.
You can also turn the player on by inserting an MD or pressing ►.

2 With the label side up and the arrow pointing toward the opening, slide the MD into the disc compartment until the recorder grips it.





3 Press ►
The MD starts playing.



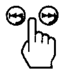
To	Press
Search backward	◄◄
Search forward	►►*
Interrupt play momentarily	❚❚
Resume play after pause	❚❚
Stop play	■
Eject the MD	⏏

* "End!" flashes when the disc reaches its end. Press ■ or ◄◄ to turn off the indicator.

Note on sound volume
Compared to analog systems, the low noise level of the MD system makes it hard to gauge the sound volume when the signal level is very low. To prevent the unexpected output of high-volume sound, adjust the volume gradually from a low level.

Locating the beginning of a track (AMS*)

Use the AMS buttons to quickly find the beginning of a track while the MD is playing or in pause mode.



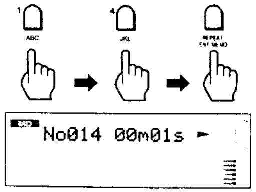
To find	Press
The beginning of the current or preceding tracks	⏮
The beginning of the next or succeeding tracks	⏭

Holding down either AMS button in playback or pause mode causes the unit to skip to the start of each successive track until either the button is released or the last track reached. When the button is released, the unit begins playback of the displayed track or enters pause mode, depending on the original mode.

* AMS: Automatic Music Sensor

Specifying a track directly

You can quickly find specific tracks during playback by directly specifying the track number using the numeric buttons.

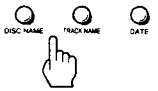


Enter the desired track number by pressing the numeric buttons, then press REPEAT/ENT/MEMO.

If the PGM indicator in the display window is on
Press MODE to turn off the indicator.

Displaying disc and track names

By pressing the DISC NAME, TRACK NAME or DATE button when an MD is playing or in pause mode, you can display the respective label information recorded on that MD. The previous display appears again after 10 seconds have passed or when you press the button again.



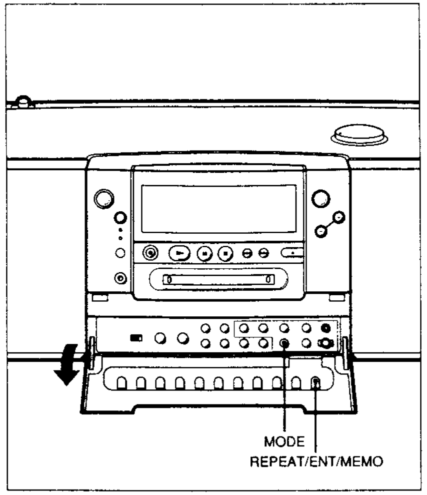
To display	Press
The name of MD	DISC NAME
The name of the current track	TRACK NAME
The recording date and total recorded time (if not a premastered MD)	DATE

Notes
- Nothing is displayed if no information has been recorded on the MD (premastered or recorded).
- Pauses during the recording of a track are not included in the total recording time displayed during playback.

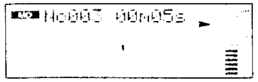
When label information exceeds the displayable length
The display window can show only 12 characters at a time. To see a title of 13 characters or more, hold down the button and the title will scroll from the 13th character on. After scrolling, the first 12 characters are displayed again.

Playing a Single Track

Use the following procedure to play back a single track once.


MODE
REPEAT/ENT/MEMO

Press MODE until "1" goes on.

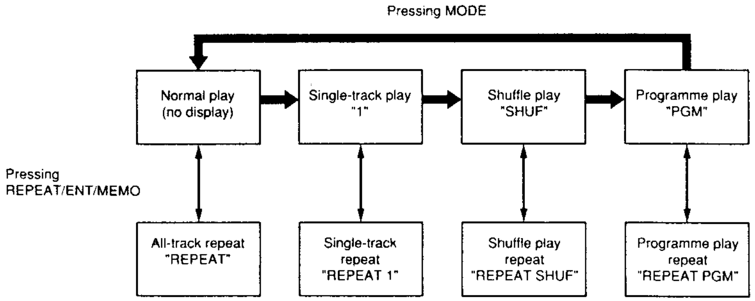


The unit stops after the selected track has finished. If "REPEAT" is also lit in the display window, the track will play continuously. (See *Playing Tracks Repeatedly* on page 17-E.)

To cancel single-track play
Press MODE until "1" goes off.

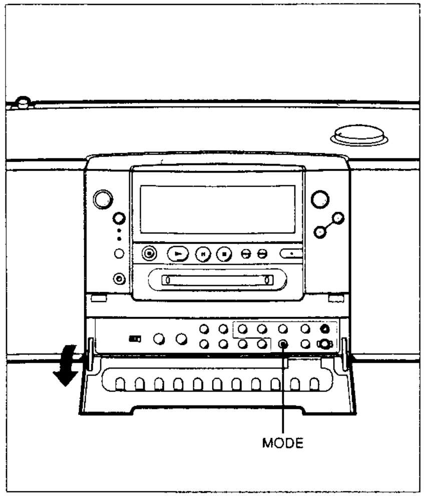
To stop single-track play
Press ■.

Quick guide to playing mode selection
The mode and display window changes in the following order each time you press MODE or REPEAT/ENT/MEMO:

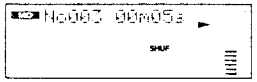

Pressing MODE
Normal play (no display)
Single-track play "1"
Shuffle play "SHUF"
Programme play "PGM"
Pressing REPEAT/ENT/MEMO
All-track repeat "REPEAT"
Single-track repeat "REPEAT 1"
Shuffle play repeat "REPEAT SHUF"
Programme play repeat "REPEAT PGM"

Playing Tracks in Random Order (Shuffle Play)

Use shuffle play to play back all tracks on an MD in random order.



While the MD is playing, press MODE until "SHUF" appears in the display window.
If "REPEAT" is on, press REPEAT/ENT/MEMO to turn it off. Shuffle play will start after the current track finishes. The word "access" flashes while shuffle play searches for the next track to play.



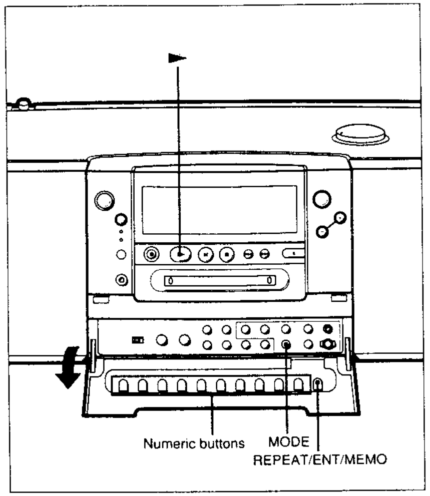
To cancel shuffle play
Press MODE until "SHUF" goes off.

To stop shuffle play
Press ■.

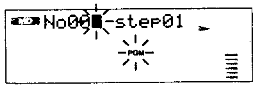
Note
When you press ⏮, the MD returns to the beginning of the current track only.

Playing Tracks in a Specific Order (Programme Play)

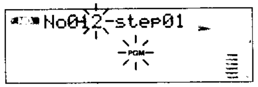
Programme play allows you to specify the playback order of up to 21 tracks.



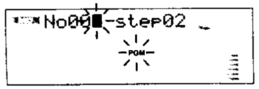
1 While the MD is playing, press MODE until "PGM" flashes in the display window.
If "REPEAT" is on, press REPEAT/ENT/MEMO to turn it off.
The MD will continue to play as you enter the desired track numbers.



2 Enter the desired track number using the numeric buttons.
For example, to enter the 12th track, press 1 and 2.

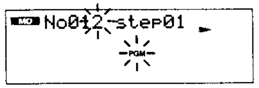


3 Press REPEAT/ENT/MEMO.
The entered track number is programmed.

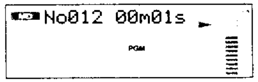


4 Repeat steps **2** and **3** within 10 seconds to enter other track numbers up to 21 tracks.
If no button is pressed within 10 seconds, programme mode is automatically canceled.

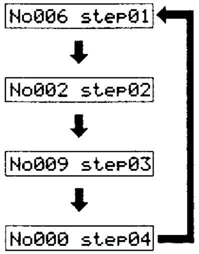
5 Press REPEAT/ENT/MEMO within 10 seconds after step **4**.
The first track number of the new programme appears. If necessary, verify the track numbers and make corrections *(see page 17-E)*. If information from the previous programme is found, press 0, then REPEAT/ENT/MEMO to erase all old track numbers.



6 Press ► (play) within 10 seconds after step **5**.
Programme play starts from the first track of the programme.



Checking the order of entered tracks
With "PGM" on and prior to playback, press REPEAT/ENT/MEMO to display each track number of the programme in sequence. After all track numbers have appeared, the programme cycles back to the first track number.
(In the diagram below, track numbers 6, 2 and 9 have been programmed.)



(No track numbers were entered after step **3**.)

To change a track in the programme
During track number verification (see *Checking the order of entered tracks* above), you can freely modify any track number merely by entering the new number with the numeric buttons, then pressing REPEAT/ENT/MEMO to save it.

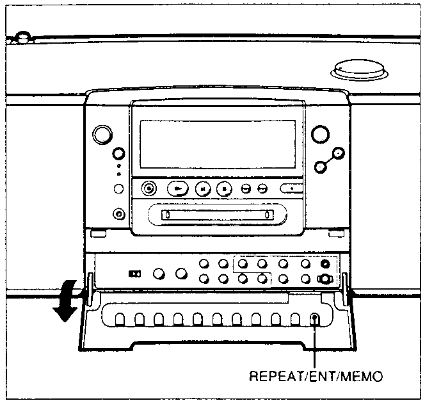
To cancel programme play
Press MODE until "PGM" goes off. The programme remains in memory until the MD is ejected or for about 10 minutes after unplugging the mains lead (see *Note* on page 9-E).

To stop programme play
Press ■ (stop).

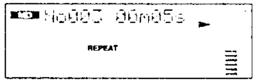
Note
You cannot programme more than 21 tracks. After the 21st step, the programme cycles back to the first step and any new entries will sequentially replace previously programmed track numbers starting from step one.

Playing Tracks Repeatedly

The repeat function can be used for repeated playback in normal, single track, shuffle or programme play mode.



While the MD is playing, press REPEAT/ENT/MEMO until "REPEAT" goes on.



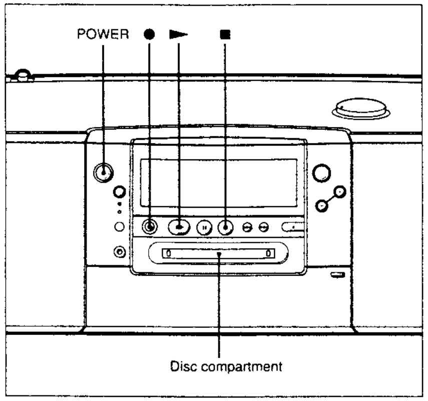
Playing mode	When "REPEAT" is on
Normal play	All the tracks are played again.
Single track play	The same track is played repeatedly.
Shuffle play	Shuffle play repeats with a different track order each time.
Programme play	The programme plays repeatedly.

To cancel the repeat function
Press REPEAT/ENT/MEMO until "REPEAT" goes off.

To stop repeated playback
Press ■ (stop).

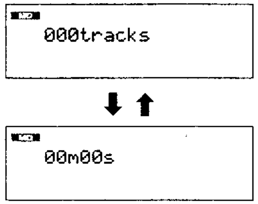
Recording From the Radio

With your MiniDisc unit you can record from the radio in a digital format. For this you must use a recordable MD (see *What Is a MiniDisc?* on page 44-E).



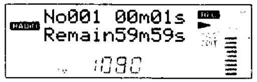
1 Press POWER.

2 With the label side up and the arrow pointing toward the opening, slide the MD into the disc compartment until the unit grips it.
The disc name (if labeled) appears on the first line while the total number of recorded tracks and the recording time alternately appear on the second line.



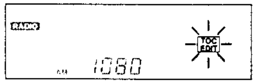
3 Press BAND to select the band and TUNING (-/+) to select the station. (For details on tuning, see *Listening to the Radio* on page 30-E.)

4 While pressing ● (record), press ► (play).
● (record) goes on and recording starts with the recording level automatically adjusted.



5 Press ■ (stop) when you want to stop recording.
"TOC* EDIT" begins to blink. After ● (record) goes off, ● (record) goes on again. After about a second, "TOC EDIT" and ● (record) go off and the recording is completed. Wait until "TOC EDIT" goes off to perform another operation.
The next recording to be performed begins on a new track on the MD.

Caution
Do not jog the unit or pull out the mains lead while "TOC EDIT" is flashing.



To	Press
Pause	II
Cancel pause	II
Eject the MD	⏏

* The TOC (Table of Contents) contains the beginning and ending addresses of all tracks on the MD.

Locating a desired point during playback
Adding a track mark at a desired point during recording (*see page 21-E*) will allow you to quickly locate that point later during playback.

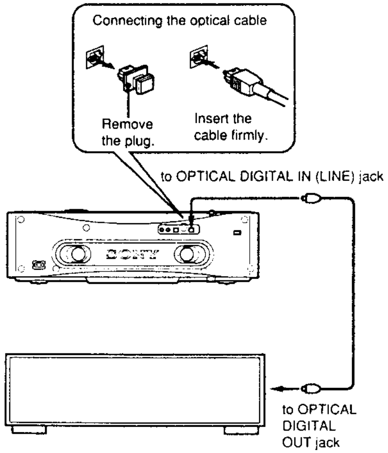
Note on recording AM stations
To record AM stations with less noise, adjust the direction of the supplied AM loop aerial or locate the aerial away from the player.

Connecting Other Sound Sources

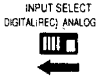
Before you can record from other sound sources, you must connect the unit to a sound source. The sound source can be one of two types: a digital source (such as another MD player, CD player or digital amplifier) or an analog source (such as a cassette player, radio or analog amplifier).

Hooking up a digital source

1 Use a POC-5 optical cable (not supplied) to connect a digital source to the OPTICAL DIGITAL IN (LINE) jack.


Connecting the optical cable
Remove the plug.
Insert the cable firmly.
to OPTICAL DIGITAL IN (LINE) jack
to OPTICAL DIGITAL OUT jack

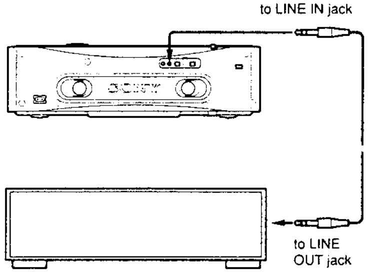
2 Set INPUT SELECT behind the sub-control panel to DIGITAL (REC).



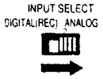
Notes on MD recording
- You cannot use the digital input jack (OPTICAL DIGITAL IN) to record digital sources with a sampling frequency different from that of the MD section (such as DAT (32 kHz, 48 kHz) or BS). In these cases, use the analog input jack (LINE IN) as described in the following section *Hooking up an analog source*.
- Do not touch the terminals of the optical cable since contamination from the fingers may interfere with the signal output.
- Since your MD unit uses SCMS (Serial Copy Management System), MDs recorded through the digital input jack (OPTICAL DIGITAL IN) cannot be used to make subsequent copies to other MDs. Copies of home-recorded MDs can only be made through the analog output jack (LINE OUT).

Hooking up an analog source

1 Connect an RK-G136 (not supplied) to connect an analog source to the LINE IN jack.

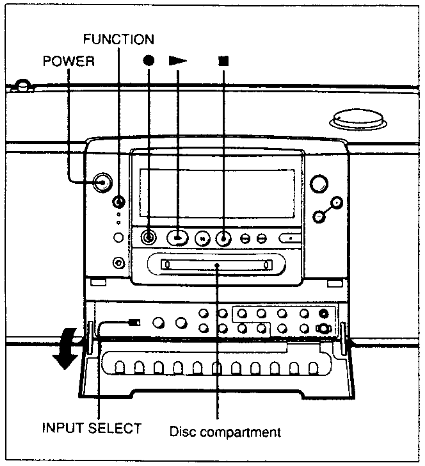


2 Set INPUT SELECT behind the sub-control panel to ANALOG.



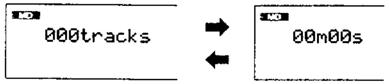
Recording Other Sources

You can record digital or analog sources connected to your unit *(see page 19-E)* to a recordable MD (see *What Is a MiniDisc?* on page 44-E).

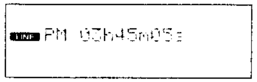


1 Press POWER.

2 With the label side up and the arrow pointing toward the opening, slide the MD into the disc compartment until the unit grips it.
The disc name (if labeled) appears on the first line while the total number of recorded tracks and the recording time alternately appear on the second line.



3 Press FUNCTION to select "LINE."

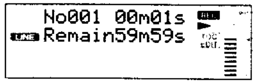


4 Set INPUT SELECT to match the respective sound source type.

For sound sources with	Set INPUT SELECT to
An OPTICAL DIGITAL OUT jack	DIGITAL
A LINE OUT jack	ANALOG

Note
When using OPTICAL DIGITAL IN to record a source, sound monitoring is not possible in the recording stop mode.

5 While pressing ● (record), press ▶ (play).
● (record) goes on and recording starts with the recording level automatically adjusted.



6 Play the sound source to be recorded.

7 Press ■ (stop) when you want to stop recording.

"TOC* EDIT" begins to blink. After ● (record) goes off, ● (record) goes on again. After about a second, "TOC EDIT" and ● (record) go off and the recording is completed. Wait until "TOC EDIT" goes off to perform another operation.
The next recording to be performed begins on a new track on the MD.

Caution
Do not jog the unit or pull out the mains lead while "TOC EDIT" is flashing.

LINE
TOC EDIT

To	Press
Pause	❚❚
Cancel pause	❚❚
Eject the MD	⏏

* The TOC (Table of Contents) contains the beginning and ending addresses of all tracks on the MD.

Recording a CD or premastered MD through OPTICAL DIGITAL IN

To record track numbers in the same sequence as the original, CDs or premastered MDs should only be played in normal play mode — not shuffle or programme play mode.

Note on recording character information
When using OPTICAL DIGITAL IN to record a source, track numbers are automatically recorded in the same sequence as the original; however, no character information (disc or track names) are recorded.

Tips on Recording

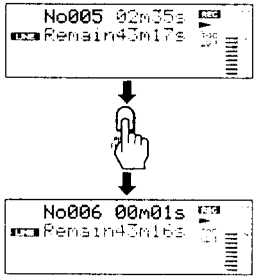
Starting a recording precisely

1. Within 4 seconds after pressing ❚❚ (pause), press ▶ (play) while holding down ● (record). The unit enters recording pause mode.
2. Play the sound source to be recorded.
3. When you come to the part you want to record, press ❚❚ (pause) again.

Track marking during recording

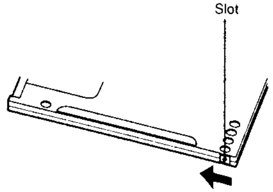
Track marking is essentially the adding of tracks during recording. By adding a track mark (new track number) at desired points, you can quickly locate those points afterwards using the AMS function. This is especially useful for separating material recorded from the radio through the analog input jack (LINE IN), or for adding additional tracks to those recorded from CDs or other MDs through the digital input jack (OPTICAL DIGITAL IN).

While recording, press REPEAT/ENT/MEMO.
The track number increments by one, and material recorded from that point is placed on that track.



To protect a MiniDisc against accidental erasure

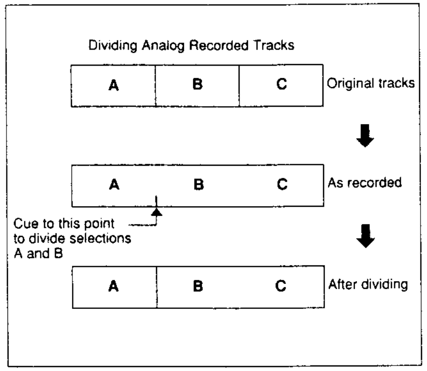
Open the slot to disable recording.
Close the slot to enable recording.



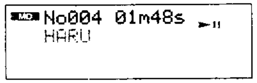
To disable recording, slide the tab in direction of arrow.

Dividing Recorded Tracks

The MD unit records analog sources through the analog input (LINE IN) as a single track on the MD. To randomly access individual songs or portions on this track, separate tracks must be designated for each song or portion, as shown in the illustration below.

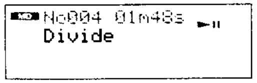

Dividing Analog Recorded Tracks
A
B
C
Original tracks
A
B
C
As recorded
Cue to this point to divide selections A and B
A
B
C
After dividing

1 While the MD is playing, press ❚❚ (pause) at the division point.

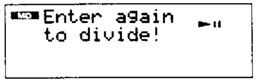

No004 01m48s ►❚❚
HARU

2 Press EDIT until "Divide" goes on.

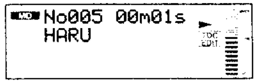
The display changes in the following order: Combine, Divide, Erase, Disc name, Track name, then back to Combine.


No004 01m48s ►❚❚
Divide

3 Press REPEAT/ENT/MEMO.


Enter again ►❚❚
to divide!

4 Press REPEAT/ENT/MEMO again to confirm your choice.
Pause is released and the new track starts playing. The track number in the display increments by one and the playing time of the new track appears.
The track title of the original track is assigned to the new track.


No005 00m01s ►
HARU

5 Repeat steps **1** to **4** until you have made all the desired divisions.

6 Press ■ (stop).

"TOC EDIT" flashes while the new TOC data is written to the MD. After about a second, "TOC EDIT" goes off and track division is completed.

Caution
Do not jog the unit or pull out the mains lead while "TOC EDIT" is flashing.

To cancel the track division procedure
Press ■ (stop) prior to step **4**.

If you make a mistake
Combine the tracks again (see *Combining Recorded Tracks* on page 24-E), then redivide the tracks.

Changing the order of consecutive tracks

Use the procedure below to switch the order of two consecutive tracks.

1 Play the second track of the two you want to switch. For example, to switch tracks 1 and 2, play track 2.

2 While the MD is playing, hold down ► (play) and press EDIT until "Swap" goes on.

3 Press REPEAT/ENT/MEMO.
"Enter again to swap!" goes on and play is paused.

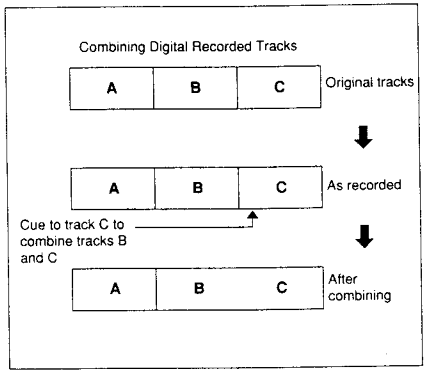
4 Press REPEAT/ENT/MEMO again to confirm the switch.
The order of the two tracks switches and play resumes.

5 Press ■ (stop).
"TOC EDIT" flashes while the TOC is updated. After about a second, "TOC EDIT" goes off and the switch is completed.

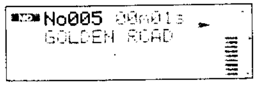
To cancel the swapping procedure
Press ■ (stop) prior to step **4**.

Combining Recorded Tracks

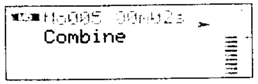
Digital sources input through the OPTICAL DIGITAL IN jack (such as CDs and other MDs) are recorded to the MD with all the track divisions of the original. The combine function allows you to combine consecutive tracks on a recorded MD *(see illustration below)* to eliminate undesired track divisions or correct mistakes made during track division *(see page 22-E)*.


Combining Digital Recorded Tracks
A
B
C
Original tracks
A
B
C
As recorded
Cue to track C to combine tracks B and C
A
B
C
After combining

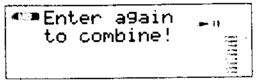
1 Play the second track of the two you want to combine.


No005 00m01s
GOLDEN ROAD

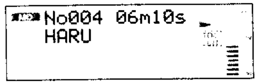
2 Press EDIT until "Combine" appears.
The display changes in the following order: Combine, Divide, Erase, Disc name, Track name, then back to Combine.


No005 00m02s
Combine

3 Press REPEAT/ENT/MEMO.
"Enter again to combine!" goes on and play is paused.


Enter again
to combine!

4 Press REPEAT/ENT/MEMO again to confirm the combination.
The two tracks are combined and play resumes. The display shows the first of the two track numbers and the combined time of both tracks.


No004 06m10s
HARU

5 Press ■ (stop).
"TOC EDIT" flashes while the TOC is updated. After about a second, "TOC EDIT" goes off and the track combination is completed.

Caution
Do not jog the unit or pull out the mains lead while "TOC EDIT" is flashing.

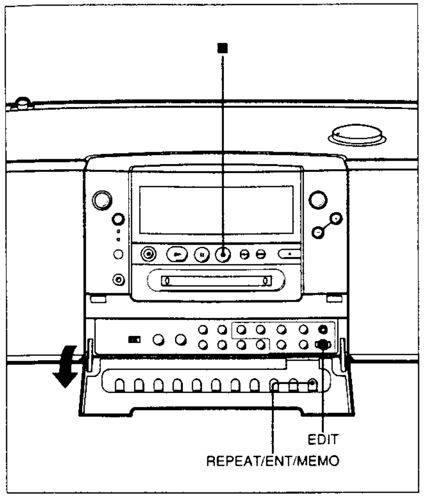
To cancel the track combination procedure
Press ■ (stop) prior to step **4**.

If you make a mistake
Divide the tracks again (see *Dividing Recorded Tracks* on page 22-E), then recombine the tracks.

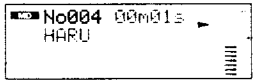
Note
After two tracks have been combined, the recording date and the track title of the first track become the effective recording date and track title of the combined track.

Erasing Recordings

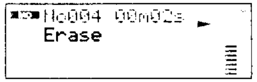
If your recorded MD has been divided into tracks, you can use the procedure below to erase specific tracks easily and instantly. Note, however, that once erased, a track cannot be recovered.



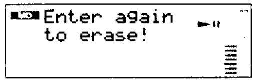
1 Play the track you want to erase.


No004 00m01s
HARU

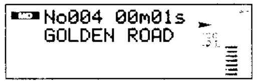
2 Press EDIT until "Erase" goes on.
The display changes in the following order: Combine, Divide, Erase, Disc name, Track name, then back to Combine.


No004 00m02s
Erase

3 Press REPEAT/ENT/MEMO.
"Enter again to erase!" goes on and play pauses.


Enter again
to erase!

4 Press REPEAT/ENT/MEMO again to confirm the erasure.
The designated track is erased, and the remaining tracks are renumbered. The track following the one just erased starts playing.
If the erased track is the last one on the MD, the unit enters pause mode at the end of the previous track.


No004 00m01s
GOLDEN ROAD

5 Press ■ (stop).
"TOC EDIT" flashes while the TOC is updated. After about a second, "TOC EDIT" goes off and the erasure is completed.

Caution
Do not jog the unit or pull out the mains lead while "TOC EDIT" is flashing.

To cancel the erasure procedure
Press ■ (stop) prior to step **4**.

Erasing Recordings (continued)

Erasing a part of a track

1 Follow the procedure on page 22-E *(Dividing Recorded Tracks)* to create a track division at the starting and ending points of the portion to be erased.

2 Follow the procedure on page 25-E *(Erasing Recordings)* to erase the selected portion.

3 Follow the procedure on page 24-E *(Combining Recorded Tracks)* to join the portions before and after the erased portion.

Erasing a disc

Erasing a recordable MD deletes all recorded tracks and disc names.

1 While the MD is playing, hold down ► (play) and press EDIT until "Swap" goes on.

2 Press EDIT again.
"Be carefull Erase all" goes on.

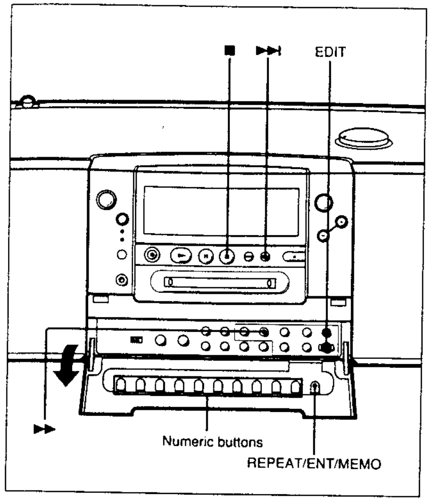
3 Press REPEAT/ENT/MEMO.
"Enter again to erase all" goes on and play is paused.

4 Press REPEAT/ENT/MEMO.
"TOC EDIT" flashes while the TOC is updated. After about a second, "TOC EDIT" goes off and the erasure is completed.

To cancel the erasing procedure
Press ■ (stop) prior to step **4**.

Labeling Recordings (Title Function)

Use the title function to create titles for your recorded discs and tracks. Titles — which may consist of uppercase letters, numbers and spaces — appear in the display window during MD operation.

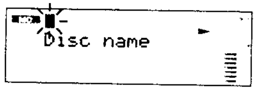


1 Press ► (play).
To label an MD, play any track on the MD.
To label a track, play the track to be labeled.

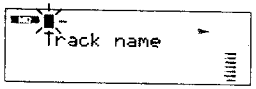
2 Press EDIT to select either "Disc name" or "Track name."

The display changes in the following order: Combine, Divide, Erase, Disc name, Track name, then back to Combine.

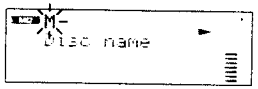
To label an MD
Press EDIT until "Disc name" goes on. Repeat play of all tracks begins automatically.



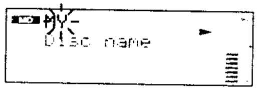
To label a track
Press EDIT until "Track name" goes on. Repeat play of a single track begins automatically.



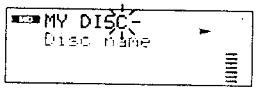
3 Press the numeric buttons to enter the desired characters. Since each button is used to input up to 4 characters, press the button once to enter a number, and twice, three or four times to enter a letter. For example, press numeric button 5 twice to enter "M".



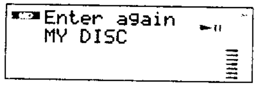
4 Press ►►| (AMS) or ►► (SEARCH) to move to the next letter.
If you make a mistake, press |◄◄ (AMS) or ◄◄ (SEARCH), then enter the correct letter. To erase a letter, enter a space (˽) by pressing 0 twice.



5 Repeat steps **3** and **4** until you have entered the entire title using a maximum of 21 characters.



6 Press REPEAT/ENT/MEMO.
Play pause and the title you entered appears on the second line.



(Continued on next page.)

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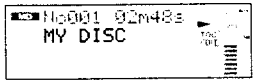
7 Press REPEAT/ENT/MEMO again to confirm the title. Pause is cancelled, the title you entered is displayed for about 10 seconds, and the display returns to normal.
If you enter more than 12 characters, the display scrolls once, then displays the first 12 characters again.



8 Press ■ (stop).
"TOC EDIT" flashes while the TOC is updated. After about a second, "TOC EDIT" turns off and the labeling procedure is completed.

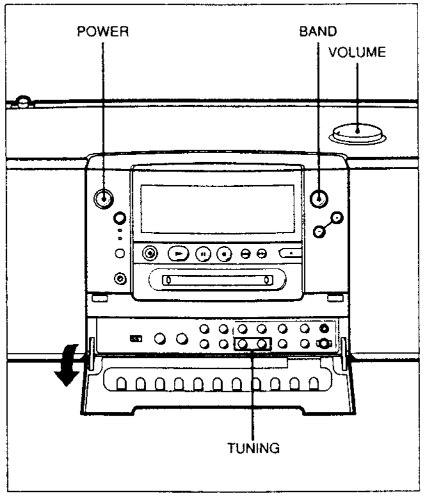
Caution
Do not jog the unit or pull out the mains lead while "TOC EDIT" is flashing.

To cancel the labeling procedure
Press ■ (stop) prior to step **7**.

Making a correction after entering a title
If you pressed REPEAT/ENT/MEMO in step **7** but wish to make a correction, repeat the labeling procedure from step **2**.

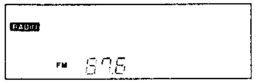
Listening to the Radio

Follow the procedure below to tune in FM or AM broadcasts.

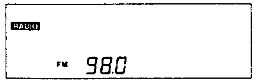


1 Press POWER.
You can also turn the player on by pressing BAND.

2 Press BAND to select FM or AM.
"RADIO" turns on and the band changes each time you press the button.



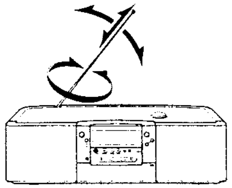
3 Tune in a radio station.
Press either the TUNING - or + button until the frequency display begins changing. The Auto Scan function searches for, then locks onto the next strong signal. Continue pressing the button until you find the desired station.



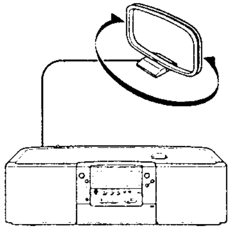
To	Press
Turn off the radio	POWER
Listen to FM	MODE to display "STEREO".
Reduce FM noise	MODE to display "MONO". The noise will be reduced, but the radio will play in monaural.

To improve broadcast reception
Reorient the aerial.

FM



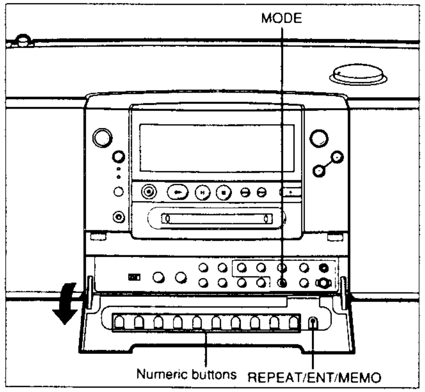
AM



Note
To minimize noise interference from the player section, locate the AM loop aerial away from the player during AM programme reception.

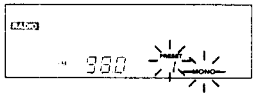
Presetting Radio Stations

Presetting your favorite radio stations allows you to quickly tune them in merely by pressing PRESET on the unit or the numeric buttons on the remote commander. The reception mode (stereo or monaural) can also be stored for each preset station.

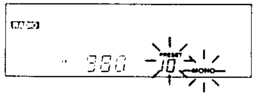


1 Press BAND to select AM or FM, then press the TUNING buttons to tune in the desired station.

2 Press REPEAT/ENT/MEMO for about 2 seconds. "PRESET" and a preset number start flashing. The radio station will be stored under the displayed number.



3 Press the numeric buttons to enter another preset number, if desired.
For example, to set 10, press numeric button 1, then 0. You may also press PRESET to increment the preset number display. Up to 24 stations, 12 each for AM and FM, can be stored.

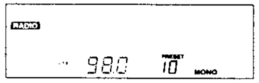


If you enter the wrong number, press the numeric buttons again to enter the correct number.

4 Press MODE to select the reception mode to be stored.

Reception mode	Indication
Stereo	STEREO
Monaural	MONO

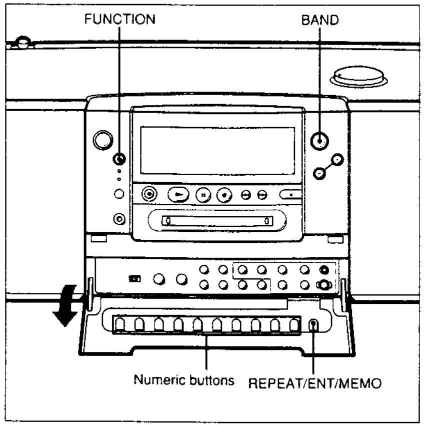
5 Press REPEAT/ENT/MEMO.
"PRESET" and the preset number stop flashing and remain on.



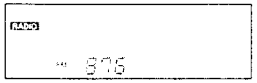
Note
Radio stations cannot be preset during the recording of radio programmes.

Playing Preset Radio Stations

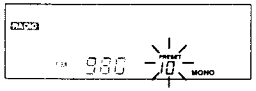
Press PRESET on the unit or the numeric buttons on the remote commander to call up stations by their preset number.



1 Press BAND or FUNCTION to turn on the RADIO indicator.



2 Enter the desired preset number by pressing the numeric buttons.
For example, to select 10, press numeric button 1, then 0. You may also press PRESET to increment the preset number display.



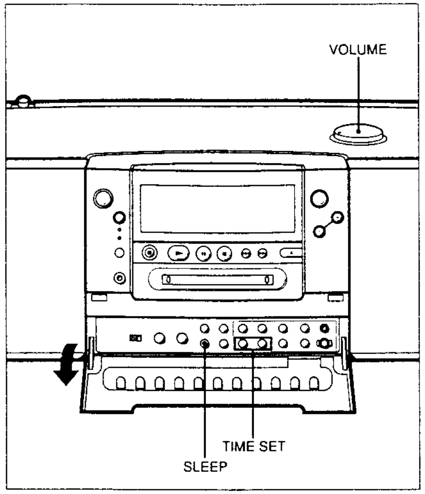
If you enter the wrong number, press the numeric buttons again to enter the correct number.

3 Press REPEAT/ENT/MEMO.
The selected preset radio station begins playing in the specified reception mode.

To erase a preset station
Storing a new station to a previously used preset number will erase the old station and replace it with the new one.

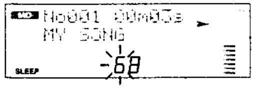
Falling Asleep to Music

The timer can be set to turn off the system after a lapse of 10, 30, 60, 90 or 120 minutes, allowing you to fall asleep while listening to a desired sound source.



1 Select the desired sound source by pressing FUNCTION then start playing the selected sound source.

2 Press SLEEP.



3 Within 4 seconds after pressing SLEEP, select the desired time duration by pressing TIME SET (+ or -). Each press of the TIME SET (+) button changes the time duration as follows:

→10 → 30 → 60 → 90 → 120→

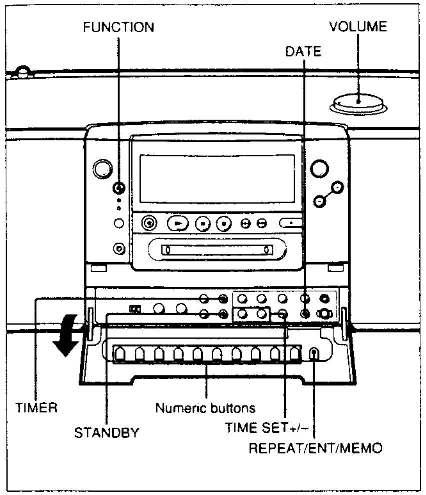
After 4 seconds, the time duration is replaced by the previous display and the sleep function activates. At this time, the back-lighting stays off even with the power on.

To cancel the sleep function
Press SLEEP to turn off the SLEEP indicator, or turn off the power.

To fall asleep with one programme and wake up with another
Set the programme to be activated when the timer goes on using the procedure on page 35-E *(Waking Up to Music)*, then perform the procedure for the sleep function.

Waking Up to Music

The wake up function turns the system on automatically at a specified time to wake you up with a preselected programme.



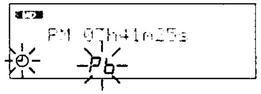
Before you start...
- Verify that the clock is set correctly. (If not, reset it using the procedure *Setting the Clock* on page 11-E.)
- Verify that the ⊕ indication is off. (If not, press STANDBY to turn it off.)

1 Select the desired sound source.

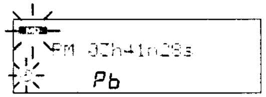
Sound source	Preparation
MD	Insert a disc.
Radio	Tune in the desired station.
Other components connected through the LINE IN jack	Turn on the power of the selected component.*

* For details, see the operation manual of the respective component.

2 Press TIMER until "Pb" and ⊕ (or "REC" and ⊕) goes on.
If "REC" goes on, press TIME SET (+ or -) to change it to "Pb".



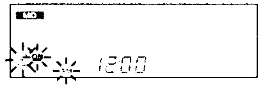
3 Press REPEAT/ENT/MEMO.



4 Select the desired sound source by pressing FUNCTION or TIME SET (+ or -).

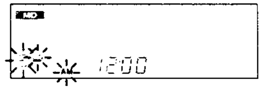
Sound source	Indication
MD	MD
Radio	RADIO
Other components connected through the LINE IN jack	LINE

5 Press REPEAT/ENT/MEMO.
"ON" goes on.

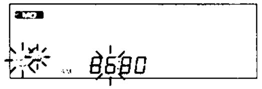


6 Set the timer-on time.

1 Press DATE to select AM or PM, then press REPEAT/ENT/MEMO.



2 Enter the hour with the numeric buttons, then press REPEAT/ENT/MEMO to store it.



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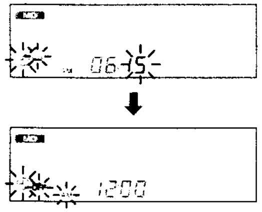
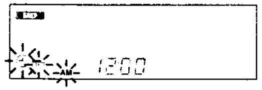
3 Enter the minutes with the numeric buttons, then press REPEAT/ENT/MEMO to store the timer-on time.
"OFF" goes on next.

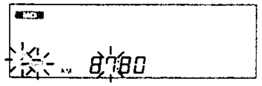


7 Set the timer-off time.

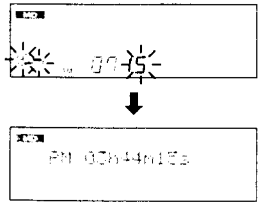
1 Press DATE to select AM or PM, then press REPEAT/ENT/MEMO.



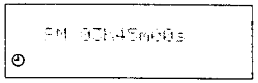
2 Enter the hour with the numeric buttons, then press REPEAT/ENT/MEMO to store it.



3 Enter the minutes with the numeric buttons, then press REPEAT/ENT/MEMO to store the timer-off time.
The timer-off time is replaced by the previous display.



8 Press STANDBY.
The power turns off automatically, and ⊕ goes on.
At the timer-on time, the power turns on and the selected source plays automatically. (The back-lighting stays off.)



If you make a mistake
Press TIMER, then repeat the procedure again.

To confirm the timer and function settings
Press TIMER, then REPEAT/ENT/MEMO. The selected function and "Pb" go on. Press REPEAT/ENT/MEMO again for the timer-on time, and again for the timer-off time. When finished, press TIMER to return to the previous display.

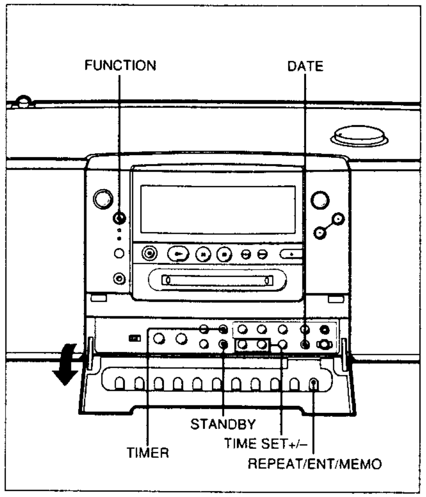
To turn off the unit during timer-activated operation
Turn off the power by pressing POWER.

To turn off the timer
Press STANDBY to turn off the ⊕ indicator.

To continue using the same settings on succeeding days
You need not set the timer and function again since the timer settings and function are stored until you reset them. If the ⊕ indicator is not on, press STANDBY to turn it on.

Timer-Recording Radio Programmes

By setting the timer, your unit will automatically record a desired radio programme while you are away or asleep.

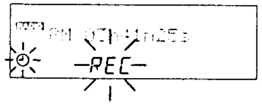


Before you start...
- Verify that the time setting is correct. (If not, set the correct time using the procedure *Setting the Clock* on page 10-E.)
- Verify that the ⊕ indication is off. (If not, press STANDBY to turn it off.)

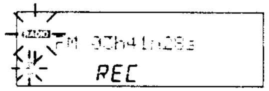
1 Tune in the desired station to be recorded.

2 Insert a recordable disc.
If the disc is record-protected, close the slot *(see page 21-E).*

3 Press TIMER until "Pb" and ⊕ (or "REC" and ⊕) go on.
If "Pb" goes on, press the TIME SET (+ or -) button to change it to "REC".

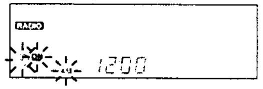


4 Press REPEAT/ENT/MEMO.



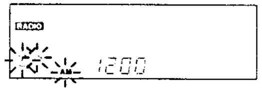
5 Press FUNCTION or TIME SET (+ or -) to turn on the RADIO indicator.

6 Press REPEAT/ENT/MEMO.
"ON" goes on.

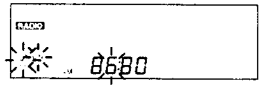


7 Set the timer-on time.

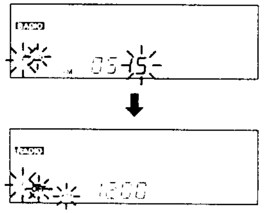
1 Press DATE to select AM or PM, then press REPEAT/ENT/MEMO.



2 Enter the hour with the numeric buttons, then press REPEAT/ENT/MEMO to store it.



3 Enter the minutes with the numeric buttons, then press REPEAT/ENT/MEMO to store the timer-on time. "OFF" goes on next.

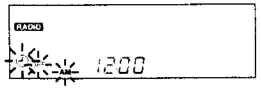


(Continued on next page.)

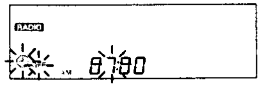
(Continued from previous page.)

8 Set the timer-off time.

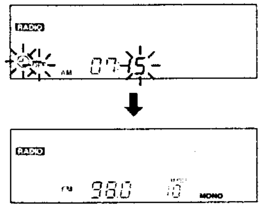
1 Press DATE to select AM or PM, then press REPEAT/ENT/MEMO.



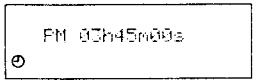
2 Enter the hour with the numeric buttons, then press REPEAT/ENT/MEMO to store it.



3 Enter the minutes with the numeric buttons, then press REPEAT/ENT/MEMO to store the timer-off time.
The timer-off time is replaced by the previous display.



9 Press STANDBY.
The power turns off automatically, and ⊕ goes on.
At the timer-on time, the power turns on and the selected radio station plays automatically. (The back-lighting stays off.)



If you make a mistake
Press TIMER, then repeat the procedure again.

To confirm the timer and function settings
Press TIMER, then REPEAT/ENT/MEMO. The selected function and "REC" go on. Press REPEAT/ENT/MEMO again for the timer-on time, and again for the timer-off time. When finished, press TIMER to return to the previous display.

To turn off the unit during timer-activated operation
Turn off the power by pressing POWER.

To turn on the timer
Press STANDBY to turn off the ⊕ indicator.

To continue using the same settings on succeeding days
You need not set the timer and function again since the timer settings and function are stored until you reset them. If the ⊕ indicator is off, press STANDBY to turn it on.

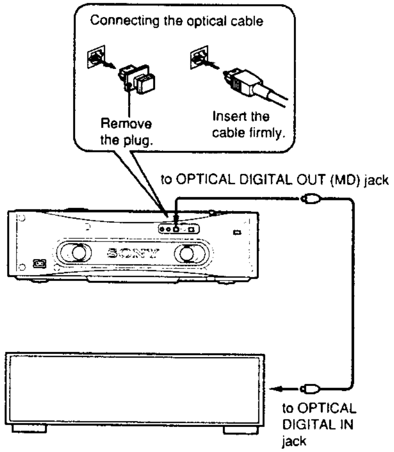
Note on recording AM programmes
Before activating the timer for recording, adjust the AM loop aerial for optimum signal reception.

Connecting Optional Equipment

Connecting your unit to other components allows you to enjoy MD sound on high-quality output equipment or record MD sound on other equipment.

Hooking up a component with digital input capability

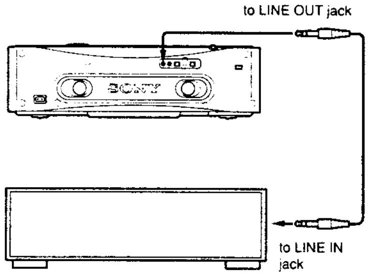
Use a POC-5 optical cable (not supplied) to connect the digital input jack of the other component to the OPTICAL DIGITAL OUT (MD) jack.


Connecting the optical cable
Remove the plug.
Insert the cable firmly.
to OPTICAL DIGITAL OUT (MD) jack
to OPTICAL DIGITAL IN jack

Notes
- You cannot use the digital output jack (OPTICAL DIGITAL OUT) to dub to another digital component with a sampling frequency different from that of the MD unit such as DAT (32 kHz, 48 kHz). In these cases, use the analog output jack (LINE OUT) as described next in the next section, *Hooking up a component with analog input capability.*
- Do not touch the terminals of the optical cable since contamination from the fingers may interfere with the signal output.

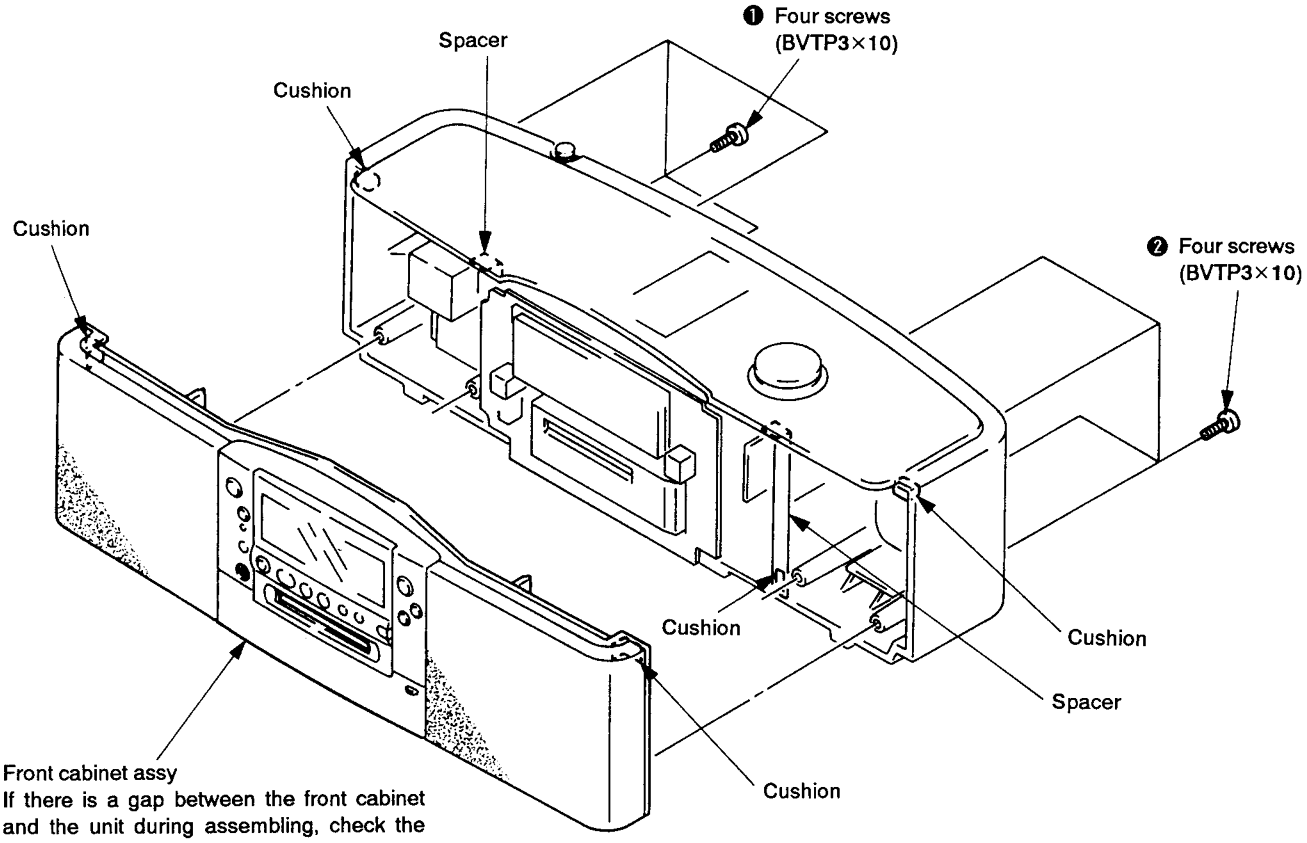
Hooking up a component with analog input capability

Use an RK-G136 (not supplied) to connect the analog input jack of the other component to the LINE OUT jack.



SECTION 2
DISASSEMBLY

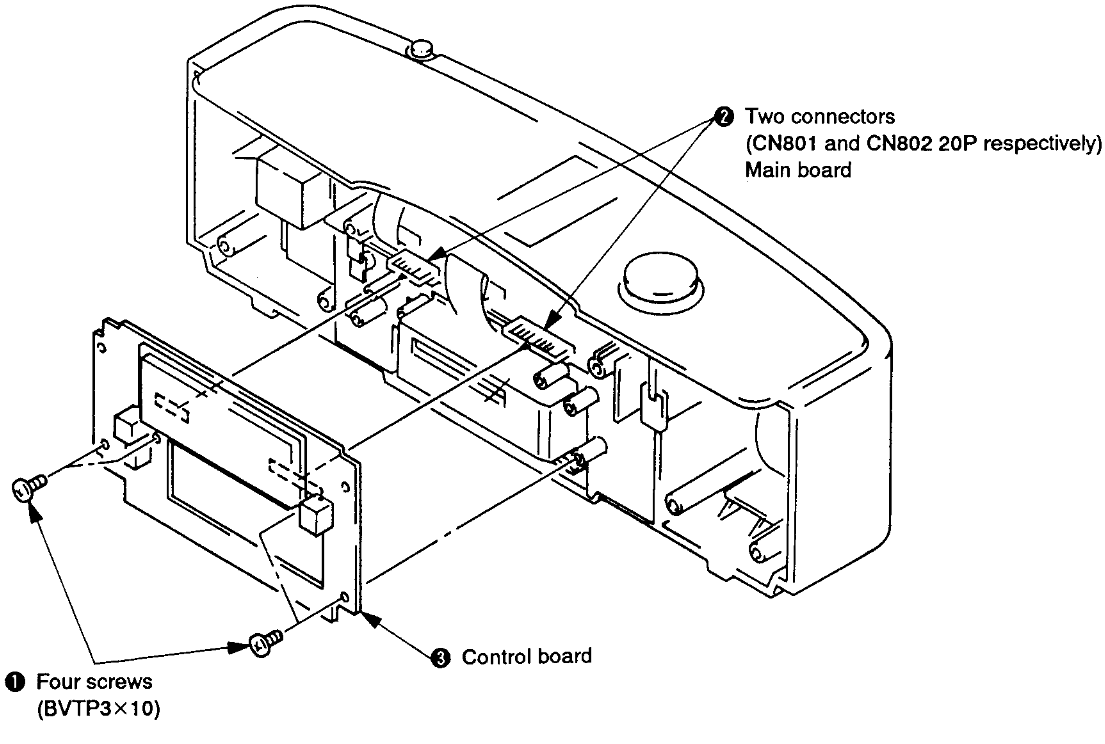
2-1. FRONT CABINET ASSY REMOVAL



❶ Four screws (BVTP3×10)
Spacer
Cushion
Cushion
❷ Four screws (BVTP3×10)
Cushion
Cushion
Spacer
Cushion
❸ Front cabinet assy

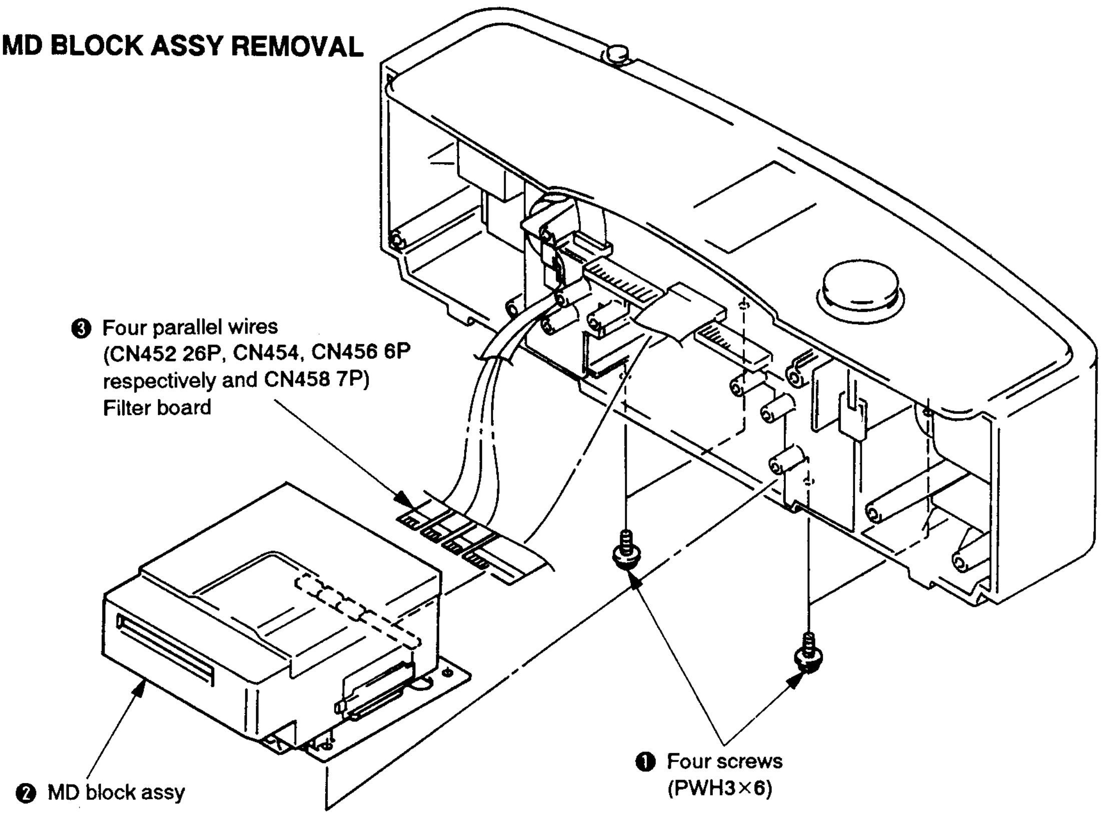
※ If there is a gap between the front cabinet and the unit during assembling, check the spacers and cushions for disengagement.

2-2. CONTROL BOARD REMOVAL



❷ Two connectors (CN801 and CN802 20P respectively) Main board
❸ Control board
❶ Four screws (BVTP3×10)

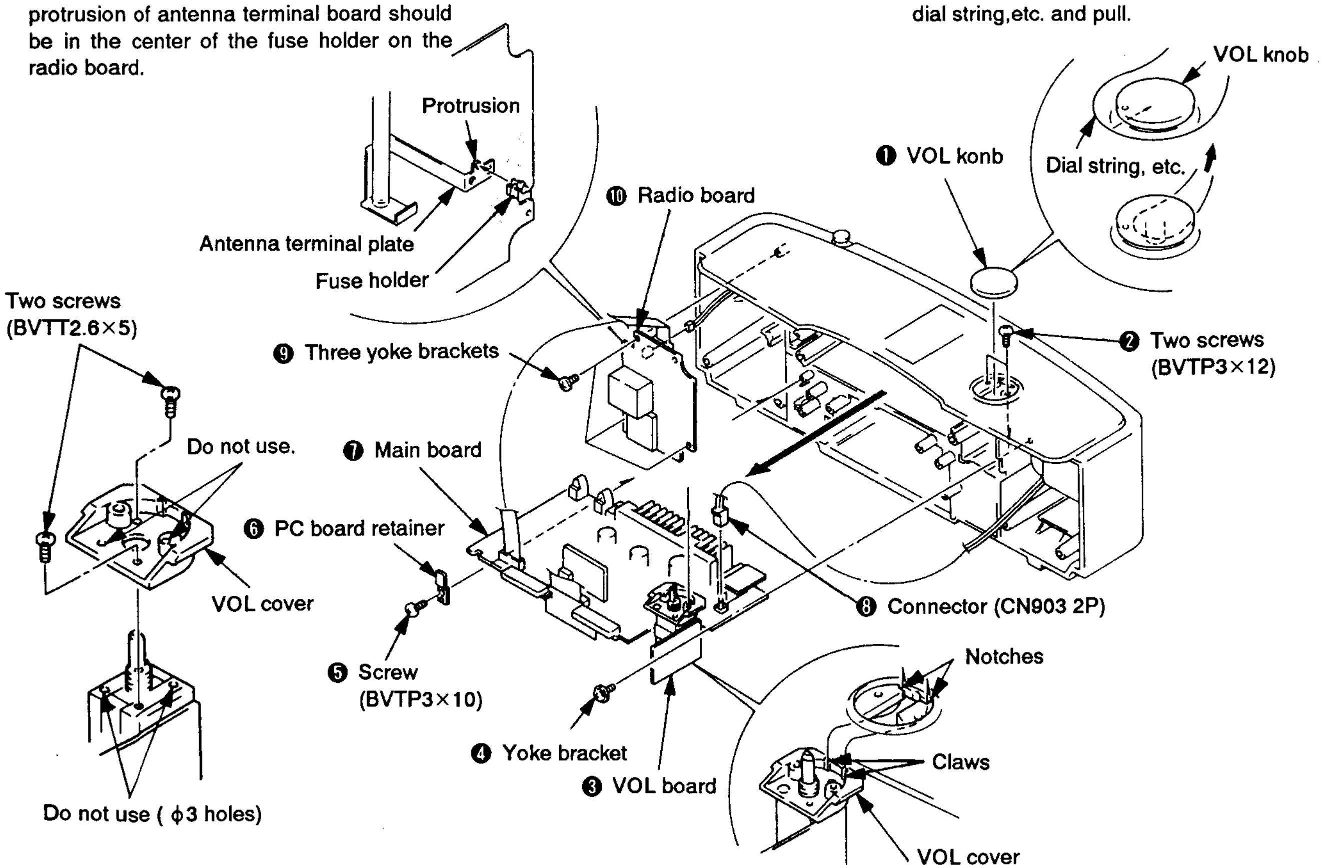
2-3. MD BLOCK ASSY REMOVAL


❸ Four parallel wires
(CN452 26P, CN454, CN456 6P
respectively and CN458 7P)
Filter board
❷ MD block assy
❶ Four screws
(PWH3×6)

2-4. MAIN BOARD AND RADIO BOARD REMOVAL

※ When mounting the radio board, a protrusion of antenna terminal board should be in the center of the fuse holder on the radio board.

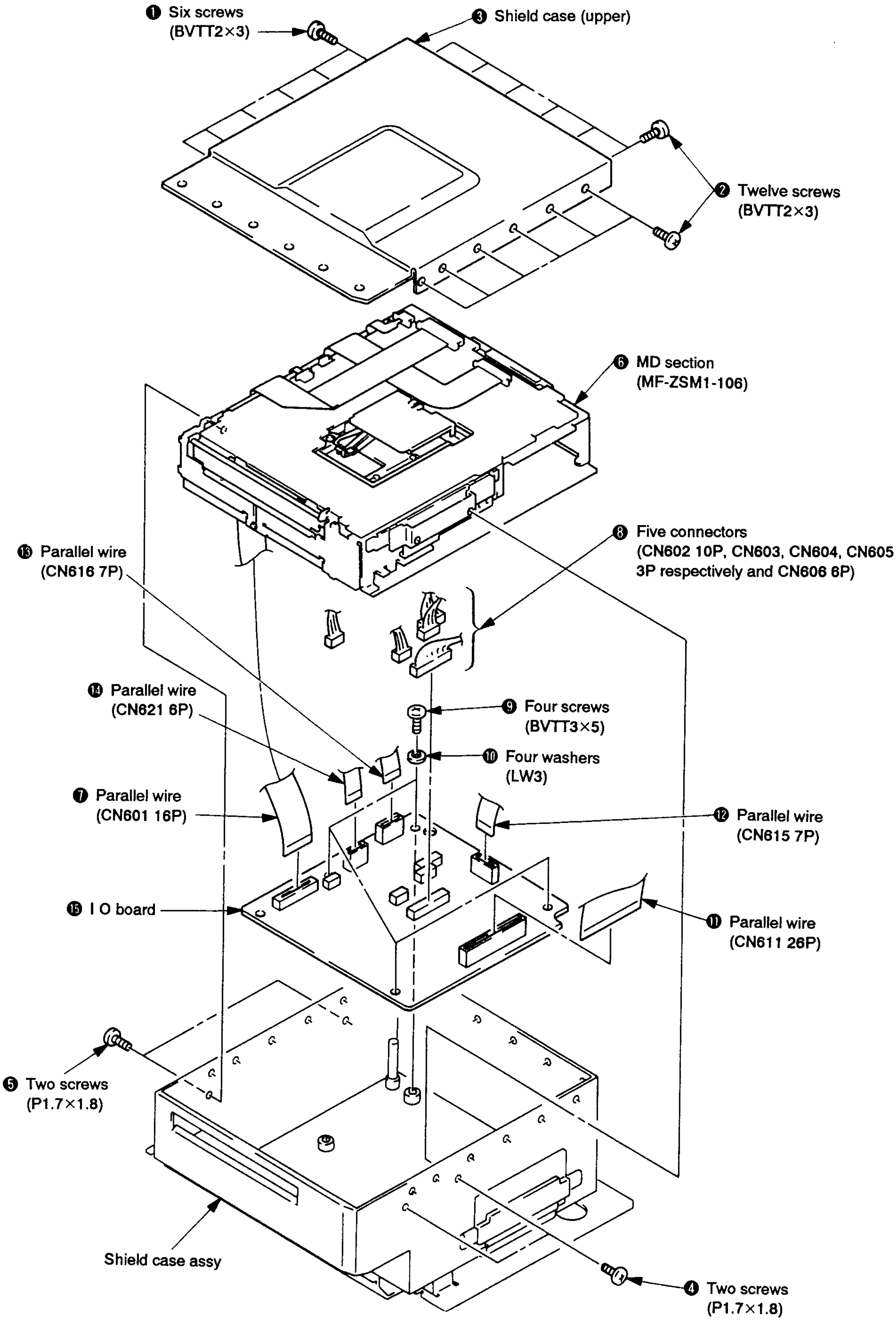
※ For easy removal, hook the knob using a dial string,etc. and pull.


Protrusion
Antenna terminal plate
Fuse holder
Two screws
(BVTT2.6×5)
❾ Three yoke brackets
❿ Radio board
❶ VOL konb
VOL knob
Dial string, etc.
❷ Two screws
(BVTP3×12)
Do not use.
❼ Main board
❻ PC board retainer
VOL cover
❽ Connector (CN903 2P)
Notches
❺ Screw
(BVTP3×10)
❹ Yoke bracket
❸ VOL board
Claws
VOL cover
Do not use (ϕ3 holes)

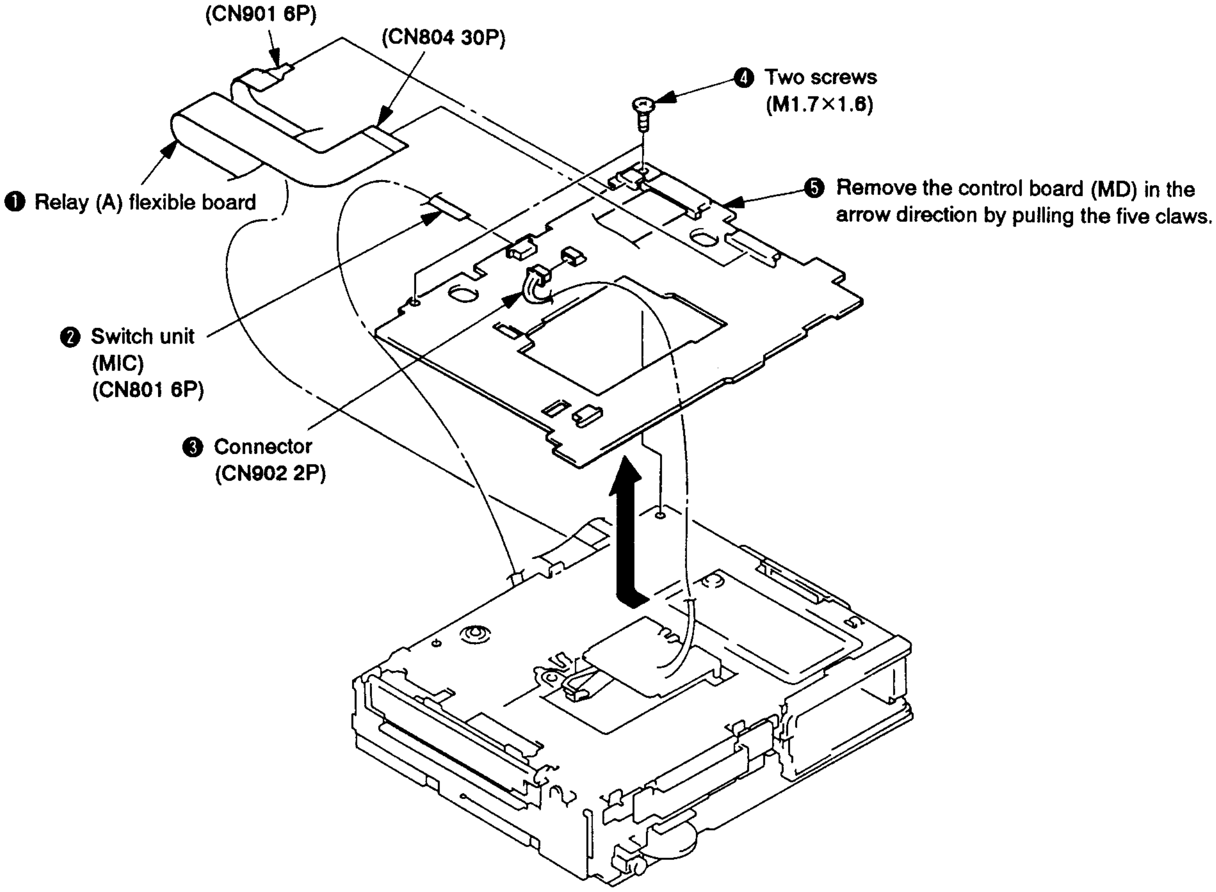
※ Use BVTT2.6×5 screws when mounting the VOL cover. Do not use ϕ3 holes.

※ When mounting the VOL board, insert completely two claws on VOL cover into notches in the rear cabinet.

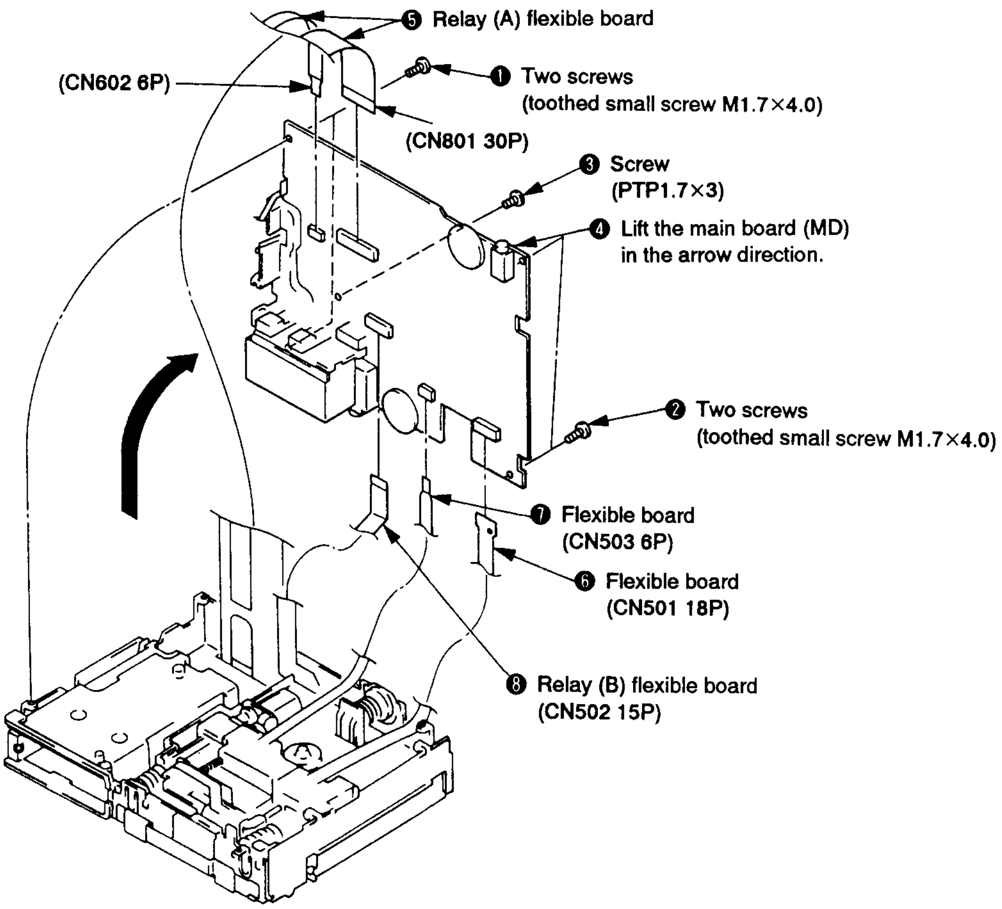
2-5. MD SECTION (MF-ZSM1-106) AND I O BOARD REMOVAL


❶ Six screws (BVTT2×3)
❸ Shield case (upper)
❷ Twelve screws (BVTT2×3)
❻ MD section (MF-ZSM1-106)
❽ Five connectors (CN602 10P, CN603, CN604, CN605 3P respectively and CN606 6P)
⓭ Parallel wire (CN616 7P)
⓮ Parallel wire (CN621 6P)
❾ Four screws (BVTT3×5)
❿ Four washers (LW3)
❼ Parallel wire (CN601 16P)
⓬ Parallel wire (CN615 7P)
⓯ I O board
⓫ Parallel wire (CN611 26P)
❺ Two screws (P1.7×1.8)
Shield case assy
❹ Two screws (P1.7×1.8)

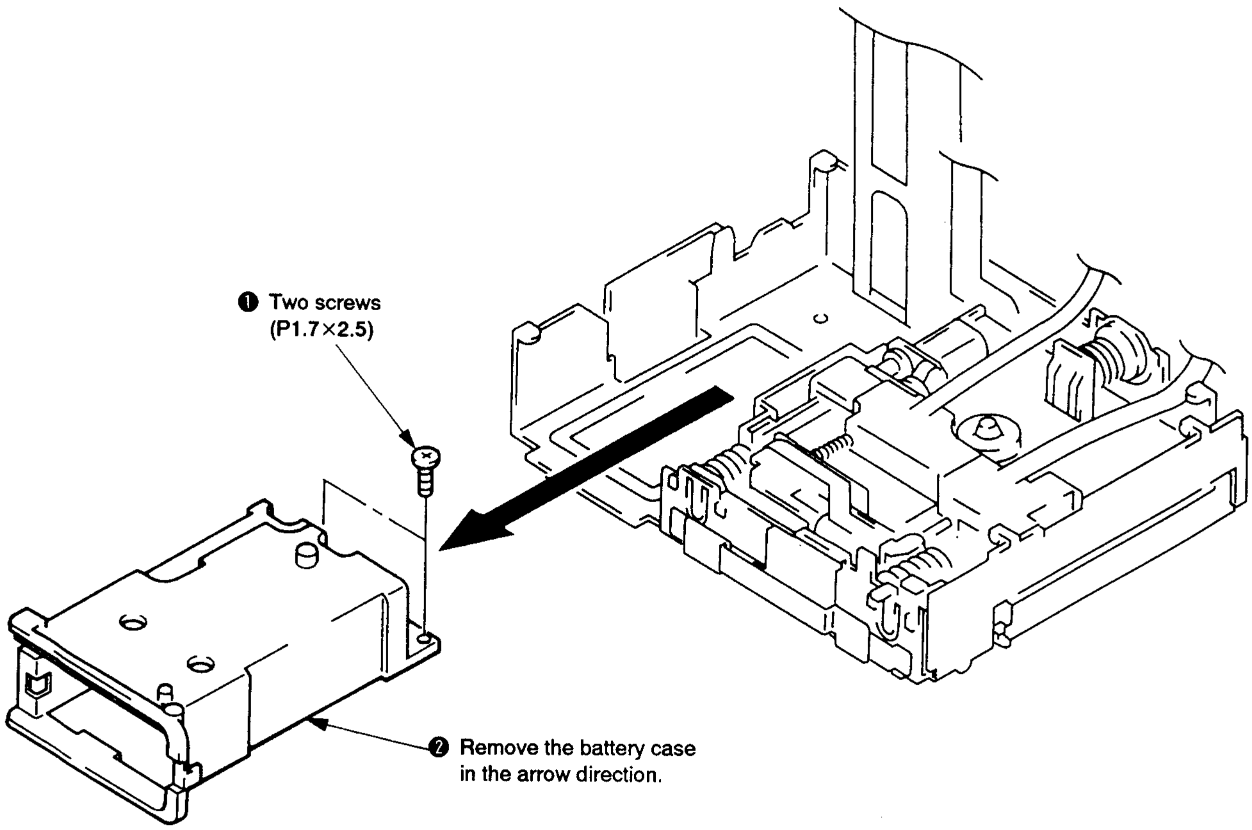
2-6. CONTROL BOARD (MD) REMOVAL


(CN901 6P)
(CN804 30P)
❹ Two screws (M1.7×1.6)
❶ Relay (A) flexible board
❺ Remove the control board (MD) in the arrow direction by pulling the five claws.
❷ Switch unit (MIC) (CN801 6P)
❸ Connector (CN902 2P)

2-7. MAIN BOARD (MD) REMOVAL


❺ Relay (A) flexible board
(CN602 6P)
❶ Two screws (toothed small screw M1.7×4.0)
(CN801 30P)
❸ Screw (PTP1.7×3)
❹ Lift the main board (MD) in the arrow direction.
❷ Two screws (toothed small screw M1.7×4.0)
❼ Flexible board (CN503 6P)
❻ Flexible board (CN501 18P)
❽ Relay (B) flexible board (CN502 15P)

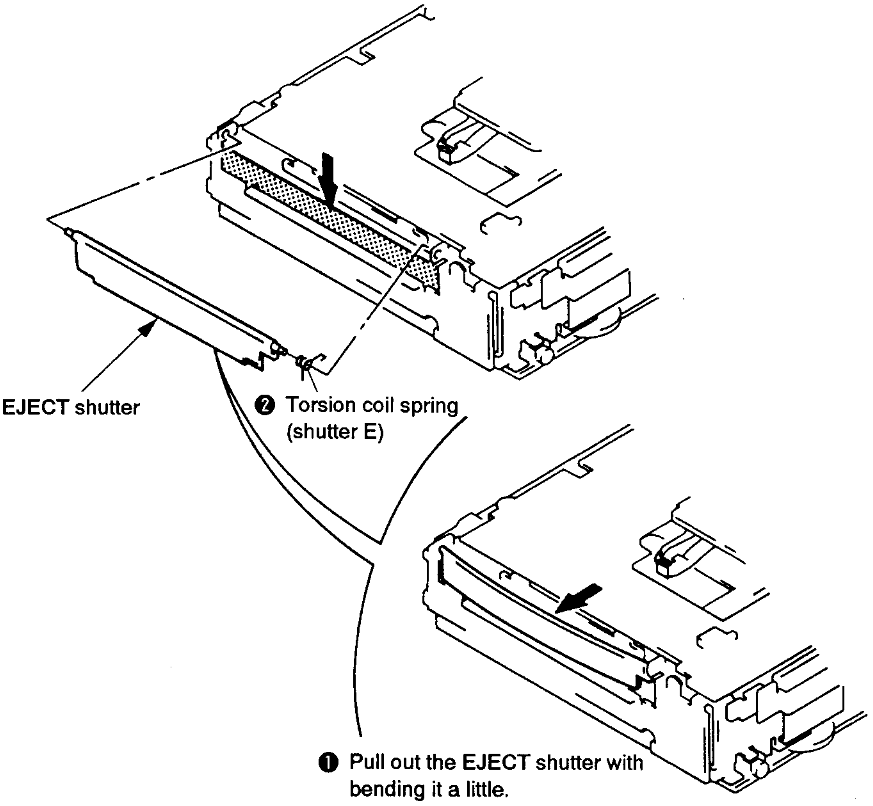
2-8. BATTERY CASE REMOVAL



❶ Two screws
(P1.7×2.5)

❷ Remove the battery case
in the arrow direction.

2-9. EJECT SHUTTER REMOVAL

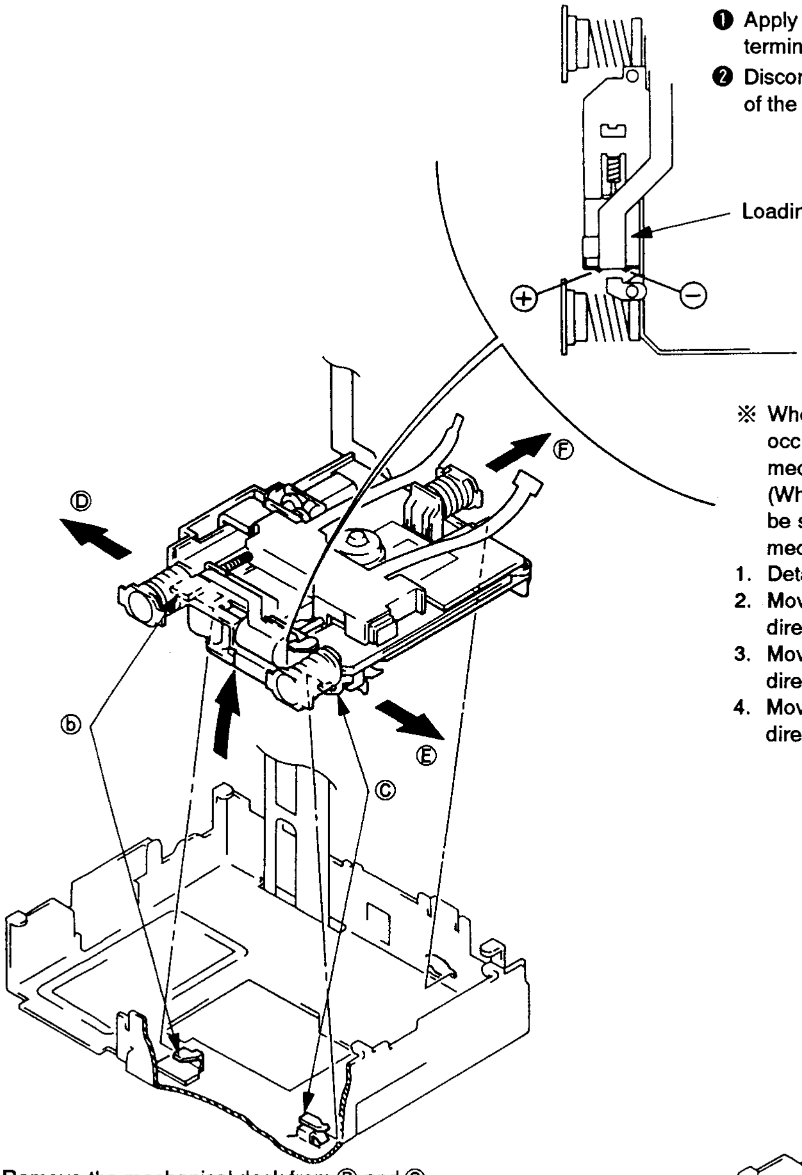


EJECT shutter

❷ Torsion coil spring
(shutter E)

❶ Pull out the EJECT shutter with bending it a little.
(When attaching, press down the red shutter and insert the EJECT shutter into the red shutter.)

2-10. MECHANICAL DECK ASSY (MT-MZ1-106) REMOVAL



❶ Apply approx. 2V to the loading motor terminal to set it in loading condition.

❷ Disconnect the connector (control board) of the magnetic head.

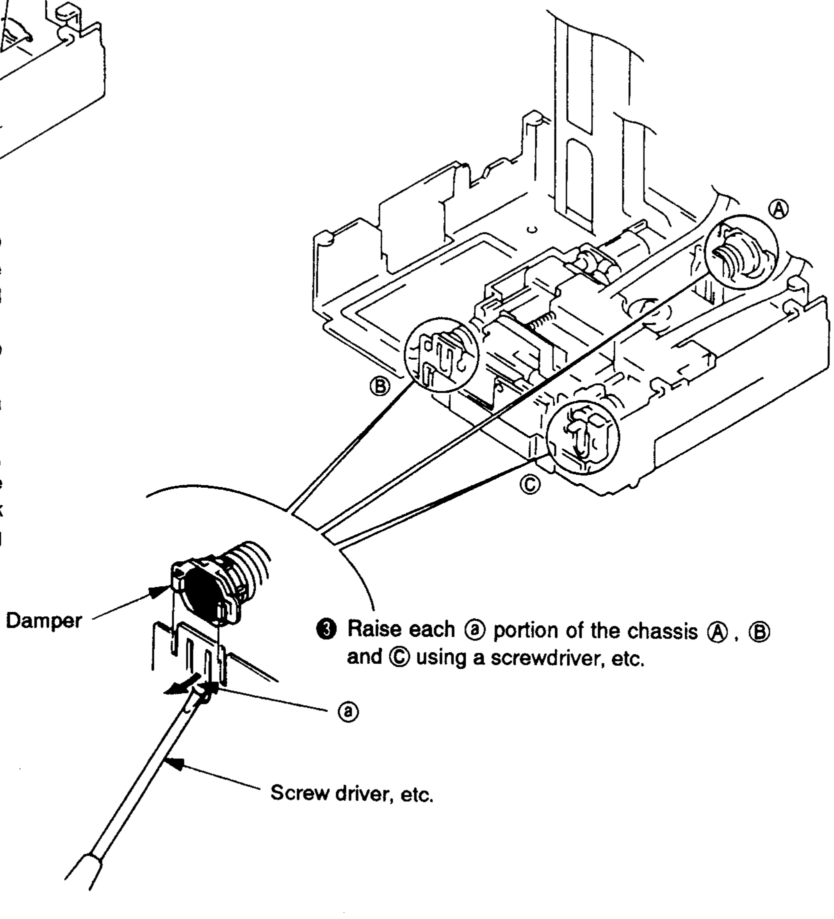
※ When the loading condition can not occur due to the loading motor or mechanical failure:
(When performing the following procedures, be sure to set the loading condition to avoid mechanical burden.)

1. Detach the three dampers.
2. Move the mechanical deck in the arrow Ⓓ direction and unlock the ⓑ portion.
3. Move the mechanical deck in the arrow Ⓔ direction and unlock the © portion.
4. Move the mechanical deck in the arrow Ⓕ direction and remove the mechanical deck.

❹ Remove the mechanical deck from Ⓑ and © portions first. (When installing, remove the damper at Ⓐ portion from the mechanical deck and mount the damper on the chassis, then mount the mechanical deck to Ⓐ portion first.)

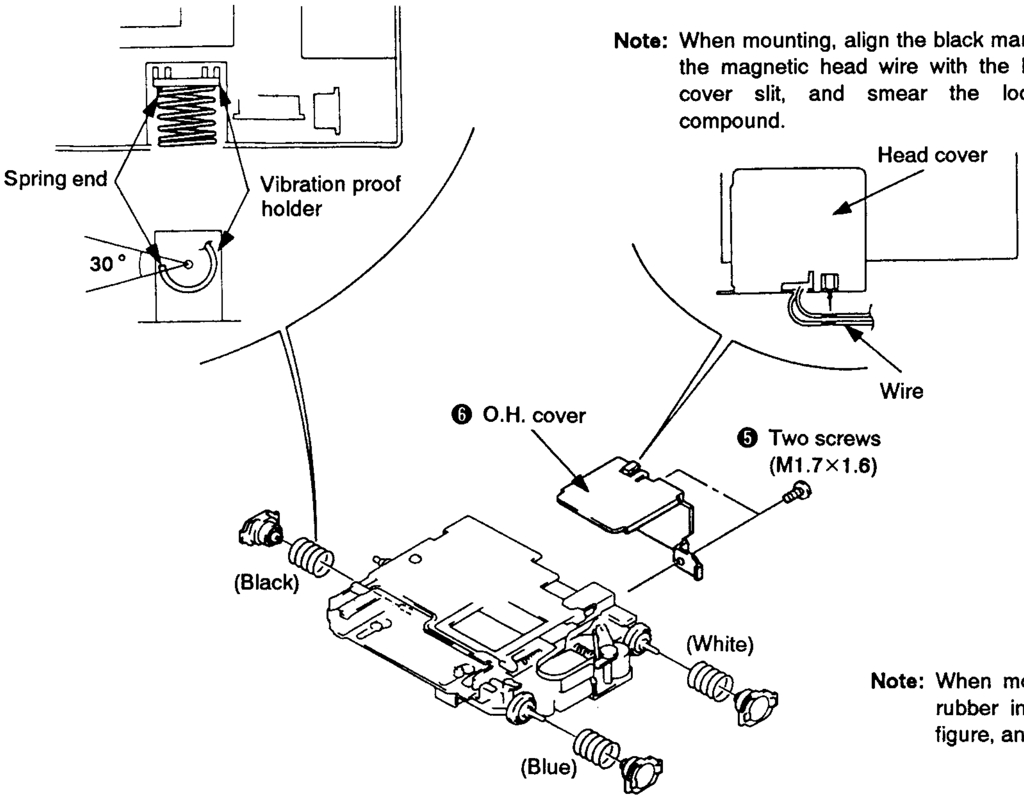
Note: Do not touch the optical block when removing the mechanical deck.

Note: During mounting the mechanical deck, activate the loading motor to make loading condition. (The mechanical deck can not be mounted unless loading condition.)

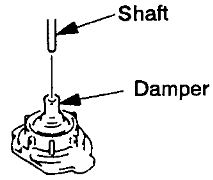


❸ Raise each ⓐ portion of the chassis Ⓐ, Ⓑ and © using a screwdriver, etc.

Note: When mounting the mechanical deck, place the spring end of vibration proof holder side as shown in the figure below. (The balance condition of the mechanical deck makes the vertical held ejector in the best condition.)


Spring end
Vibration proof holder
30 °
Head cover
Wire
❻ O.H. cover
❺ Two screws (M1.7×1.6)
(Black)
(White)
(Blue)

Note: When mounting, align the black mark on the magnetic head wire with the head cover slit, and smear the locking compound.


Shaft
Damper

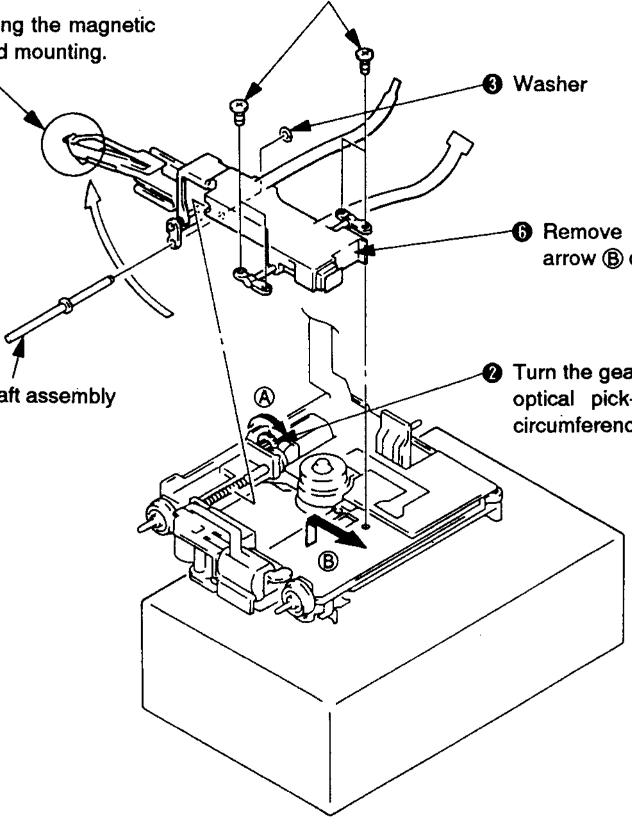
Note: When mounting the damper, make the rubber in a condition as shown in the figure, and insert the shaft.

2-11. OPTICAL PICK-UP BLOCK (KMS-130B) REMOVAL

❶ Turn the loading motor to set in eject condition.

Note: Fully take care of handling the magnetic head when removing and mounting.

❺ Four screws (M1.7×2.5)
(When tightening the screws, place the mechanical deck on a stand, etc. to avoid the magnetic head of destruction.)



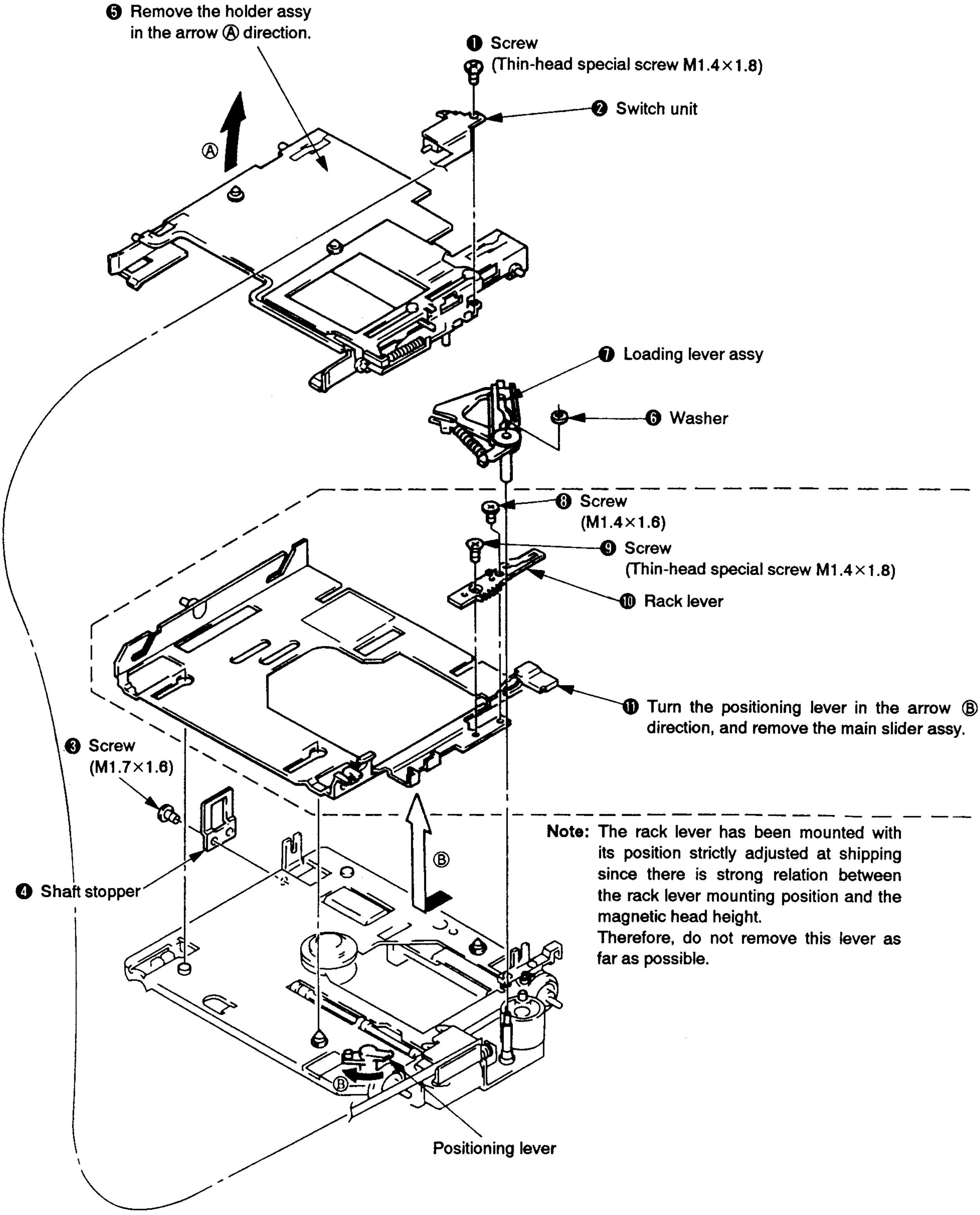
❸ Washer

❻ Remove the optical pick-up block in the arrow Ⓑ direction.

❹ Shaft assembly

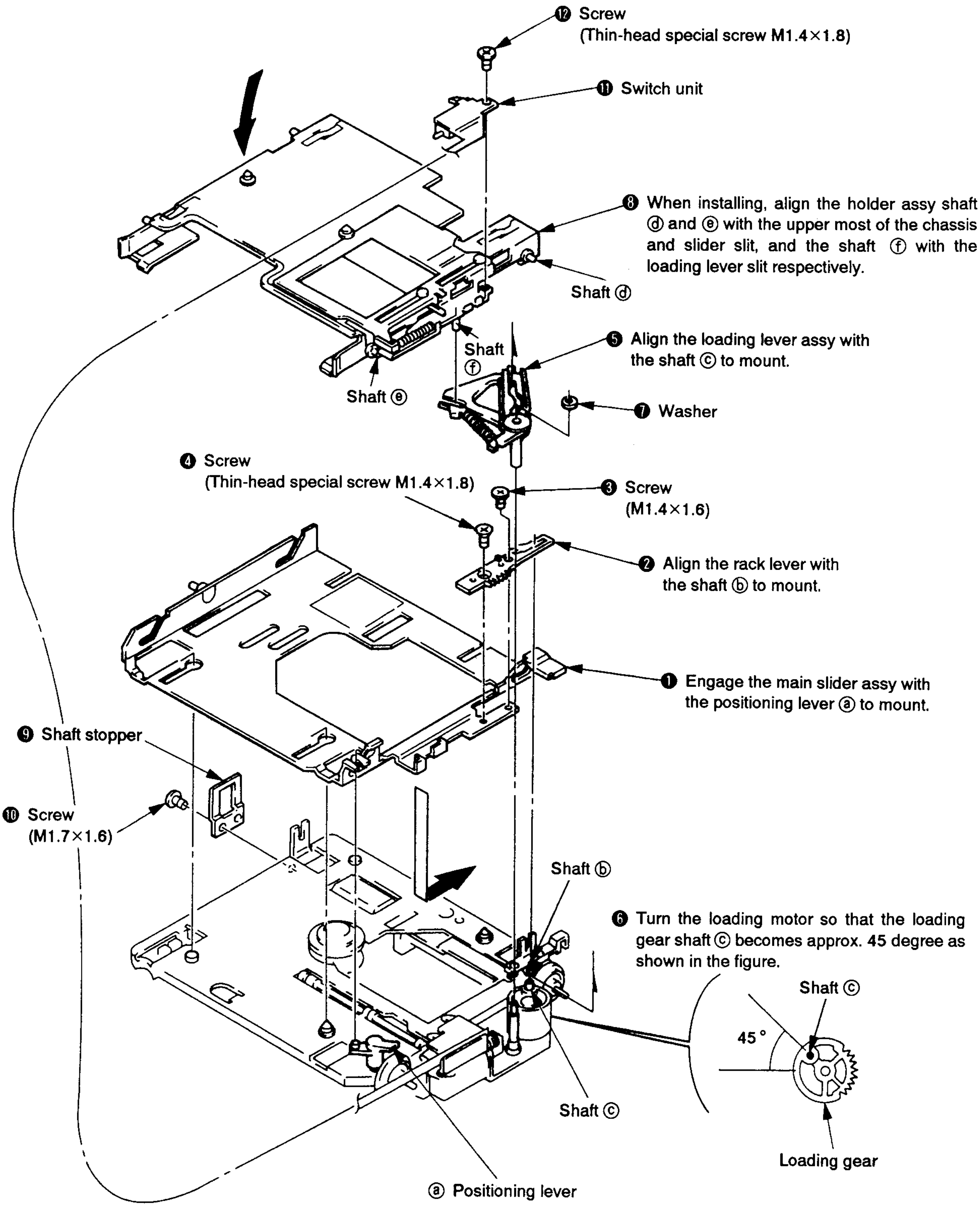
❷ Turn the gear in the direction Ⓐ to move the optical pick-up block to the inner most circumference.

2-12-1. HOLDER ASSY AND MAIN SLIDER ASSY REMOVAL


❺ Remove the holder assy in the arrow Ⓐ direction.
❶ Screw (Thin-head special screw M1.4×1.8)
❷ Switch unit
Ⓐ
❼ Loading lever assy
❻ Washer
❽ Screw (M1.4×1.6)
❾ Screw (Thin-head special screw M1.4×1.8)
❿ Rack lever
⓫ Turn the positioning lever in the arrow Ⓑ direction, and remove the main slider assy.
❸ Screw (M1.7×1.6)
❹ Shaft stopper
Ⓑ
Ⓑ
Positioning lever

Note: The rack lever has been mounted with its position strictly adjusted at shipping since there is strong relation between the rack lever mounting position and the magnetic head height. Therefore, do not remove this lever as far as possible.

2-12-2. HOLDER ASSY AND MAIN SLIDER ASSY INSTALLATION


❶ Engage the main slider assy with the positioning lever ⓐ to mount.

❷ Align the rack lever with the shaft ⓑ to mount.

❸ Screw (M1.4×1.6)

❹ Screw (Thin-head special screw M1.4×1.8)

❺ Align the loading lever assy with the shaft ⓒ to mount.

❻ Turn the loading motor so that the loading gear shaft ⓒ becomes approx. 45 degree as shown in the figure.

❼ Washer

❽ When installing, align the holder assy shaft ⓓ and ⓔ with the upper most of the chassis and slider slit, and the shaft ⓕ with the loading lever slit respectively.

❾ Shaft stopper

❿ Screw (M1.7×1.6)

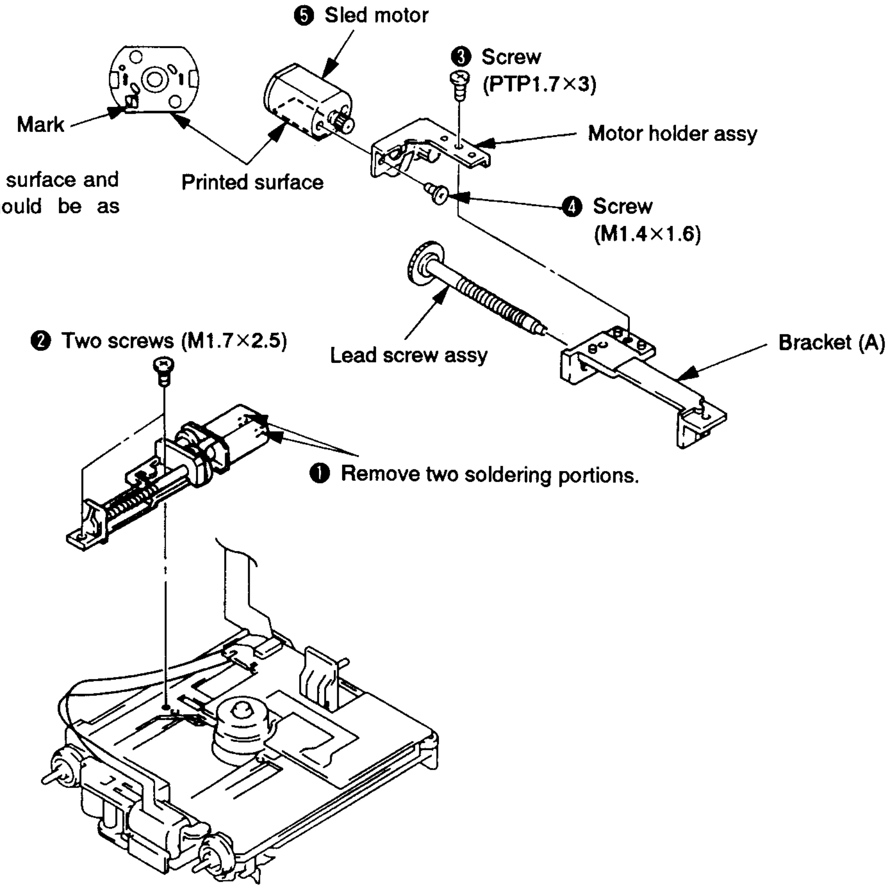
⓫ Switch unit

⓬ Screw (Thin-head special screw M1.4×1.8)

Shaft ⓓ
Shaft ⓕ
Shaft ⓔ
Shaft ⓑ
Shaft ⓒ
45 °
Shaft ⓒ
Loading gear
ⓐ Positioning lever

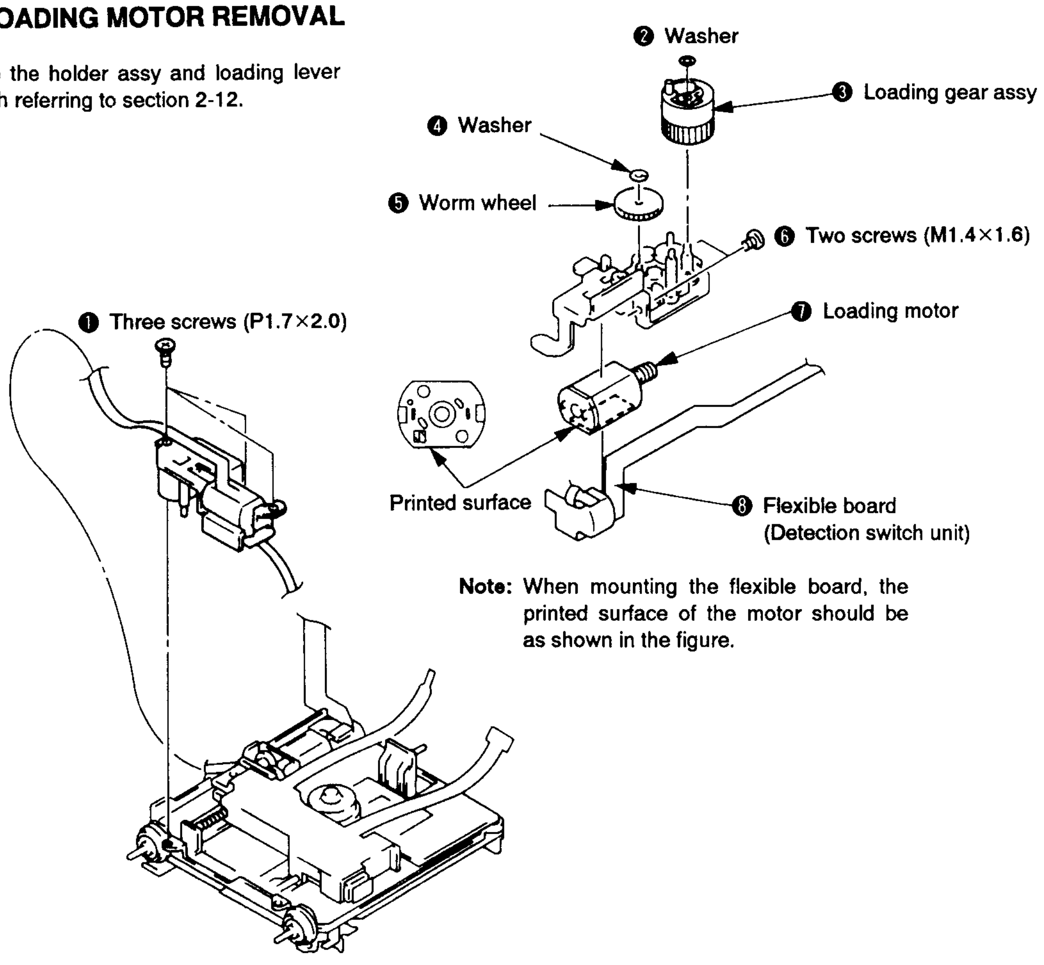
2-13. SLED MOTOR REMOVAL

Note: When mounting, the printed surface and ⊕ mark of the motor should be as shown in the figure.


❺ Sled motor
❸ Screw (PTP1.7×3)
Mark
Motor holder assy
Printed surface
❹ Screw (M1.4×1.6)
❷ Two screws (M1.7×2.5)
Lead screw assy
Bracket (A)
❶ Remove two soldering portions.

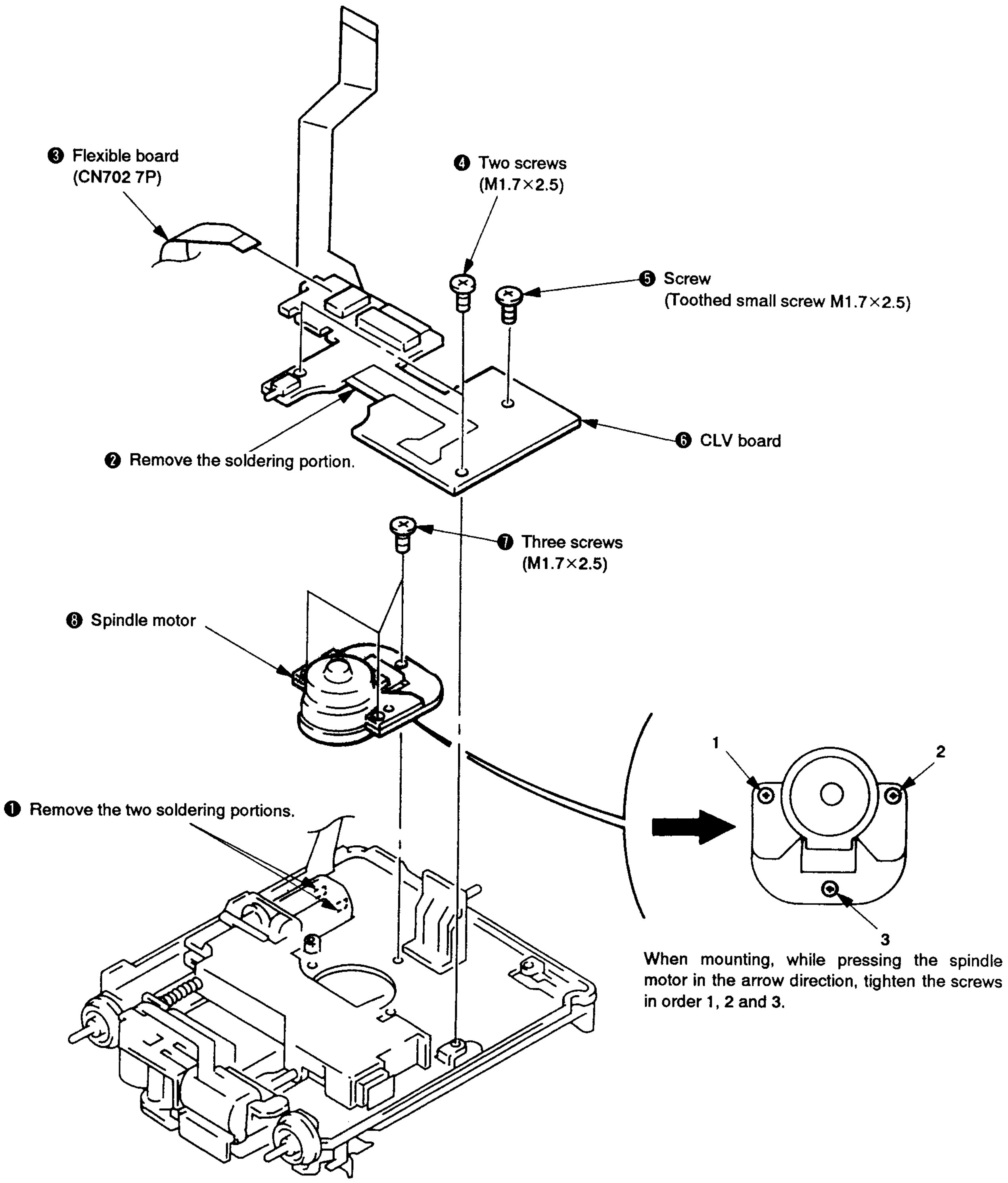
2-14. LOADING MOTOR REMOVAL

※ Remove the holder assy and loading lever assy with referring to section 2-12.


❷ Washer
❸ Loading gear assy
❹ Washer
❺ Worm wheel
❻ Two screws (M1.4×1.6)
❶ Three screws (P1.7×2.0)
❼ Loading motor
Printed surface
❽ Flexible board (Detection switch unit)

Note: When mounting the flexible board, the printed surface of the motor should be as shown in the figure.

2-15. SPINDLE MOTOR REMOVAL


❸ Flexible board
(CN702 7P)
❹ Two screws
(M1.7×2.5)
❺ Screw
(Toothed small screw M1.7×2.5)
❷ Remove the soldering portion.
❻ CLV board
❼ Three screws
(M1.7×2.5)
❽ Spindle motor
❶ Remove the two soldering portions.
1
2
3

When mounting, while pressing the spindle motor in the arrow direction, tighten the screws in order 1, 2 and 3.

Pin Name	Signal Name	I/O	Function
41	FS4	O	176.4 kHz (MCLK system)
42	GTOP	O	Opens the sync protection window when "H" (INPUT EFM SYNC monitor output) (not used)
43	XUGFS	O	Unguarded frame sync at "L" (INPUT EFM SYNC monitor output) (not used)
44	XPLCK	O	EFM decoder PLL clock output (98Fs=4.3218MHz)
45	GFS	O	Frame sync OK at "H" (INPUT EFM SYNC monitor output)
46	EPDO	O (3)	EFM encoder external PLL phase comparison output. Freq.: low → "H"
47	RFCK	O	7.35 kHz output (MCLK system)
48	EVCI	I	EFM encoder external PLL oscillation input (196 Fs=8.6436 MHz)
49	EVCO	O	EFM encoder external PLL oscillation output (196 Fs=8.6436 MHz)
50	VSS	–	Digital GND
51	MCLK	O	22.579 MHz output. Duty will not be protected.
52	XTAI	I	Crystal oscillation input (512 Fs=22.5792 MHz)
53	XTAO	O	Crystal oscillation output (512 Fs=22.5792 MHz)
54	TEST9	I	Fixed at "L"
55	MVCI	I	Digital-in PLL oscillation input (512 Fs=22.5792 MHz)
56	MVCO	O	Digital-in PLL oscillation output (512 Fs=22.5792 MHz)
57	TEST2	O	Fixed at "Open"
58	DIPD	O (3)	Digital PLL phase comparison output. Freq.: low → "L"
59	RAOF	O	RAM overflow output (Monitor output of decoder)
60	MT3	O	Playback corrected state monitor output
61	MT2	O	Playback corrected state monitor output
62	MT1	O	Playback corrected state monitor output
63	MT0	O	Playback corrected state monitor output
64	WFCK	O	7.35 kHz output (EFM decoder PLL system during playback, EFM encoder PLL system during recording)
65	DIN	I	Digital audio input pin
66	MD2	I	Digital audio out ON/OFF pin. ON when "H"
67	DOUT	O	Digital audio output pin
68	DIDT	O	Audio data output pin of the digital audio input pin
69	DODT	I	16-bit data input pin for the digital audio output
70	DOVF	I	Validity flag input pin for the digital audio
71	VDD	–	Digital power supply
72	TEST3	I	Fixed at "L"
73	TEST4	O	Fixed at "Open"
74	TEST5	I	Fixed at "L"
75	TEST6	I	Fixed at "L"
76	FMCK	I	ADIP reading clock input (6.3 kHz) (TTL Schmidt input)
77	FMDT	I	ADIP data input (TTL Schmidt input)
78	ADFG	I	ADIP carrier signal input (20.05 kHz) (TTL Schmidt input)
79	FSW	O (3)	Spindle motor output filter switching output. "Z" when CLV-P. Others: "L"
80	NON	O	Spindle motor ON/OFF control output. ON when "H"

Note:

- XUGFS is a frame sync obtained from the EFM signal and is a negative pulse. Signal before sync protection.
- PLL is made for XPLCK so that changes in the reversion and falling edge of the EFM PLL clock and the EFM signal match.
- The GFS signal becomes "H" when the frame sync and interpolation protection timing match.
- C2PO is a signal which shows the error state of the data.
- RAOF is a signal generated when the 32K RAM exceeds the ± 4F jitter margin.

SECTION 3
IC PIN FUNCTIONS

IC601 EFM/ACIR ENCODER/DECODER (CXD2525R)

*** (3) of I/O is state output and (A) is analog output.**

Pin Name	Signal Name	I/O	Function
1	MDP	O (3)	Spindle motor servo control
2	MDS	O (3)	Spindle motor servo control
3	EFMI	I	Playback EFM input
4	ASY	O	Playback EFM full-swing output
5	LOCK	O	Spindle servo (CLV) lock state monitor. Locks at “H”.
6	VCOO	O	EFM decoder analog PLL oscillation output (196Fs=8.6436 MHz)
7	VCOI	I	EFM decoder analog PLL oscillation input (196Fs=8.6436 MHz)
8	TEST1	I	Test pin. Normally GND.
9	PDO	O (3)	EFM decoder analog PLL phase comparison output
10	VSS	–	Digital GND
11	EFMO	O	EFM output during recording
12	ATER	O	ADIP CRC flag output. “H” when error.
13	CNIN	I	Track jump number count signal input
14	SENS	O (3)	Internal status output pin for the serial bus address
15	SYPL	I	SQSY, ADSY, DQSY, MQSY polarity switching input pin. Active high when “H”. (to GND)
16	FILO	O (A)	Digital PLL master PLL filter output
17	FILI	I	Digital PLL master PLL filter input
18	PCO	O (3)	Digital PLL master PLL phase comparison output
19	AVSS	–	Analog GND
20	CLTV	I	Digital PLL master PLL VCO control voltage input
21	AVDD	–	Analog power supply
22	XRST	I	System reset input. Active low
23	REC	I	Decoder when “L” and encoder when “H”
24	TEST8	I	Test pin. Normally GND
25	SCLK	I	Serial bus clock input
26	XLAT	I	Serial bus latch input
27	SWDT	I	Serial bus writing data input
28	SRDT	O (3)	Serial bus reading data output
29	ADSY	O	ADIP sync output
30	SQSY	O	Sub code Q sync output
31	VDD	–	Digital power supply
32	DQSY	O	Sync (SCOR) output of sub code Q of the digital in U-bit CD format
33	TEST7	O	Open
34	DTI	I	Recording audio signal input
35	DTO	O (3)	Playback audio signal output. High impedance during recording
36	C2PO	O	PLayback: C2PO. Digital REC: D, In-VFLAG. Analog REC: 0
37	BCK	O	2.8224 MHz output (MCLK system)
38	XBCK	O	BCK reverse output (MCLK system)
39	LRCK	O	44.1 kHz (=Fs) (MCLK system)
40	WDCK	O	88.2 kHz (MCLK system)

IC602 Shockproof Memory Controller (CXD2526Q)

Pin Name	Signal Name	I/O	Function
1	A14	O	When RMSL is H: SRAM address bus A14. When RMSL is L: WFFUL (Note) (not used)
2	A15	O	When RMSL is H: SRAM address bus A15. When RMSL is L: RFEMP (Note) (not used)
3	A16	O	When RMSL is H: SRAM address bus A16. When RMSL is L: WFOVF (Note) (not used)
4	A17	O	When RMSL is H: SRAM address bus A17. When RMSL is L: WDTM (Note) (not used)
5	A18	O	When RMSL is H: SRAM address bus A18. When RMSL is L: ZERO (Note) (not used)
6	A19	O	When RMSL is H: SRAM address bus A19. When RMSL is L: MDTSC (Note) (not used)
7	A20	O	When RMSL is H: SRAM address bus A20. When RMSL is L: CMPSY (Note) (not used)
8	LRCK	I	LRCK input from the EFM encoder/decoder
9	BCK	I	BCK input from the EFM encoder/decoder
10	C2PO	I	C2PO input from the EFM decoder
11	DATA	I/O	Input/output data from the decoder during playback and that to the encoder during recording
12	VSS	–	GND
13	TEST	I	Test pin. Normally fixed at “L”
14	XRST	I	Reset input. Resets when “L”
15	MIN	I	External input monitor signal input pin. Inputs the signal to be monitored
16	SRDT	(HiZ) O	Microprocessor serial data output pin “Hi-z” when the CXD2526 read register is not selected
17	SWDT	I	Microprocessor serial data input pin
18	XSLT	I	Microprocessor serial data latch signal input pin
19	SCK	I	Microprocessor serial data shift lock input pin
20	SCTX	I	Data output enable signal input pin in the recording mode
21	RCPB	I	“L”: Playback mode, “H”: Recording mode
22	WRMN	I	“H”: Write mode, “L”: Monitor mode
23	SBMN	I	“H”: Records the input signal according to the SDCT. “L”: Records according to the DCT
24	XINT	O	Interrupting request output pin. “L” when the interrupting status is generated
25	MDSY	O	Input data MD sync detection signal
26	MEMFUL	O	“H” when the main data area is full with data
27	MEMEMP	O	“H” when the main data area is empty
28	UNDER	O	“H” when RMS<THUND
29	OVER	O	“H” when RMS ≧ THOVR
30	ERWR	O	“H” when the data which C2PO is effective is written in the RAM
31	BTOV4	O	“H” when BCT ≧ 400 (Hex)
32	TXST	O	“H” when data is transmitted
33	VDD	–	System power supply
34	BUSY	I/O	“H” when RAM is accessed
35	ZZ2	I	Test signal. Fixed at “H”
36	ZZ1	I	Test signal. Fixed at “H”
37	ZZ0	I	Test signal. Fixed at “H”
38	XALT	O	Data ready or latch signal to CXD2527R
39	ADT1	I	Pin for data input from CXD2527R
40	ADTO	O	Pin for data output to CXD2527R
41	ACK	O	Pin for data input/output clock output to CXD2527R
42	AC2	O	Pin for output data C2PO output to CXD2527R
43	XRQ	I	Pin for data request signal input from CXD2527R

Pin Name	Signal Name	I/O	Function
44	SDCK	I	External sub data I/F shift clock input (to GND)
45	SBDT	I/O	External sub data I/F data output pin in the playback mode and the data input pin in the recording mode
46	XWT	O	External sub data I/F wait signal. Must not transmit the clock for reading the new data at “L” (not used)
47	SRDY	O	External sub data I/F access permission signal. Ignores the clock for sub data R/W if it is transmitted at “H” (not used)
48	MCK	O	128 fs output pin (not used)
49	F256	O	256 fs output pin (not used)
50	XTLO	O	System clock output pin (22.5792 MHz) (not used)
51	XTLI	I	System clock input pin (22.5792 Mhz)
52	VSS	–	GND
53	TEST	I	Fixed at “L”
54	RMSL	I	External RAM select pin. “H”: SRAM. “L”: DRAM
55	ERR	I/O	C2PO input/output pin when EXTC2R is “H”
56	D7	O	SRAM data line D7 when RMSL is “H”. Test signal when “L”. (not used)
57	D4	I/O	RAM data bus D4 when RMSL is “H”. Test signal when “L”.
58	D0	I/O	RAM data bus D0
59	D1	I/O	RAM data bus D1
60	D3	I/O	RAM data bus D3
61	D2	I/O	RAM data bus D2
62	XCAS	I/O	DRAM $\overline{CAS}$ output when RMSL is “L”. Data bus D6 when “L”
63	XOE	O	RAM output enable
64	A10	O	RAM address bus A10 (not used)
65	XWE	O	RAM write enable
66	XRAS	I/O	DRAM $\overline{RAS}$ output when RMSL is “L”. Data bus D5 when “H”
67	A11	O	RAM address bus A11 (not used)
68	A9	O	RAM address bus A9
69	A0	O	RAM address bus A0
70	A1	O	RAM address bus A1
71	A2	O	RAM address bus A2
72	A3	O	RAM address bus A3
73	VDD	O	System power
74	A8	O	RAM address bus A8
75	A7	O	RAM address bus A7
76	A6	O	RAM address bus A6
77	A5	O	RAM address bus A5
78	A4	O	RAM address bus A4
79	A12	O	RAM address bus A12 when RMSL is “H”. CS output when “L” (not used)
80	A13	O	RAM address bus A13 when RMSL is “H”. SYOK output when “L” (not used)

Note:

WFFUL:	Becomes “H” when the writing FIFO becomes full.
RFEMP:	Becomes “H” when the reading FIFO becomes empty.
WFOVF:	Becomes “H” when the writing FIFO becomes overflow.
WDTM:	Outputs the window timing inside the D1 clock.
ZERO:	Outputs “H” when BCT is 0.
MDTSC:	Becomes “H” when the input data header selector is 00 to IF and “L” at other times.
CMPSY:	Interpolation sync timing.

4-1. CIRCU

— MAIN UNIT

RADIO B

ANTENNA
TERMINAL BOA

MD POWER

— MD BLOCK

CONTROL B

CLV

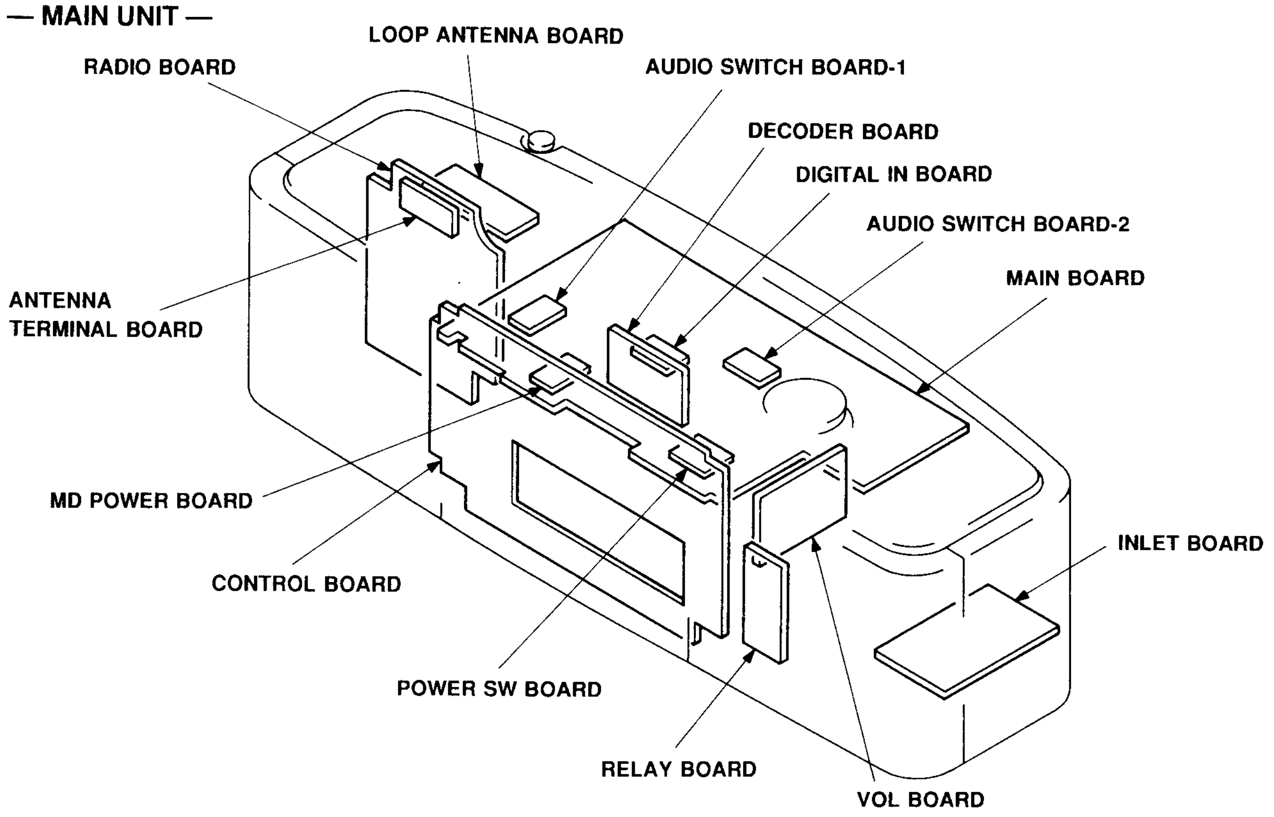
Pin Name	Signal Name	I/O	Function
44	SDCK	I	External sub data I/F shift clock input (to GND)
45	SBDT	I/O	External sub data I/F data output pin in the playback mode and the data input pin in the recording mode
46	XWT	O	External sub data I/F wait signal. Must not transmit the clock for reading the new data at "L" (not used)
47	SRDY	O	External sub data I/F access permission signal. Ignores the clock for sub data R/W if it is transmitted at "H" (not used)
48	MCK	O	128 fs output pin (not used)
49	F256	O	256 fs output pin (not used)
50	XTLO	O	System clock output pin (22.5792 MHz) (not used)
51	XTLI	I	System clock input pin (22.5792 Mhz)
52	VSS	–	GND
53	TEST	I	Fixed at "L"
54	RMSL	I	External RAM select pin. "H": SRAM. "L": DRAM
55	ERR	I/O	C2PO input/output pin when EXTC2R is "H"
56	D7	O	SRAM data line D7 when RMSL is "H". Test signal when "L". (not used)
57	D4	I/O	RAM data bus D4 when RMSL is "H". Test signal when "L".
58	D0	I/O	RAM data bus D0
59	D1	I/O	RAM data bus D1
60	D3	I/O	RAM data bus D3
61	D2	I/O	RAM data bus D2
62	XCAS	I/O	DRAM $\overline{\text{CAS}}$ output when RMSL is "L". Data bus D6 when "L"
63	XOE	O	RAM output enable
64	A10	O	RAM address bus A10 (not used)
65	XWE	O	RAM write enable
66	XRAS	I/O	DRAM $\overline{\text{RAS}}$ output when RMSL is "L". Data bus D5 when "H"
67	A11	O	RAM address bus A11 (not used)
68	A9	O	RAM address bus A9
69	A0	O	RAM address bus A0
70	A1	O	RAM address bus A1
71	A2	O	RAM address bus A2
72	A3	O	RAM address bus A3
73	VDD	O	System power
74	A8	O	RAM address bus A8
75	A7	O	RAM address bus A7
76	A6	O	RAM address bus A6
77	A5	O	RAM address bus A5
78	A4	O	RAM address bus A4
79	A12	O	RAM address bus A12 when RMSL is "H". CS output when "L" (not used)
80	A13	O	RAM address bus A13 when RMSL is "H". SYOK output when "L" (not used)

Note: WFFUL: Becomes "H" when the writing FIFO becomes full.
RFEMP: Becomes "H" when the reading FIFO becomes empty.
WFOVF: Becomes "H" when the writing FIFO becomes overflow.
WDTM: Outputs the window timing inside the D1 clock.
ZERO: Outputs "H" when BCT is 0.
MDTSC: Becomes "H" when the input data header selector is 00 to IF and "L" at other times.
CMPSY: Interpolation sync timing.

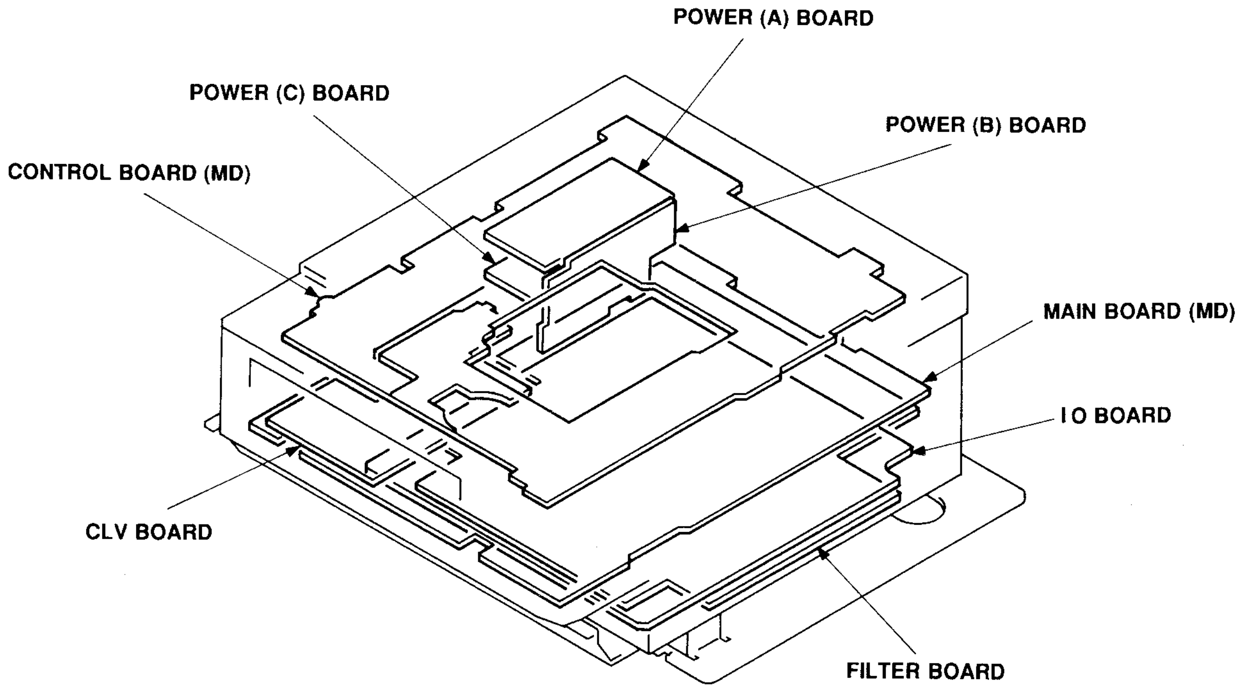
SECTION 4
DIAGRAMS

4-1. CIRCUIT BOARDS LOCATION

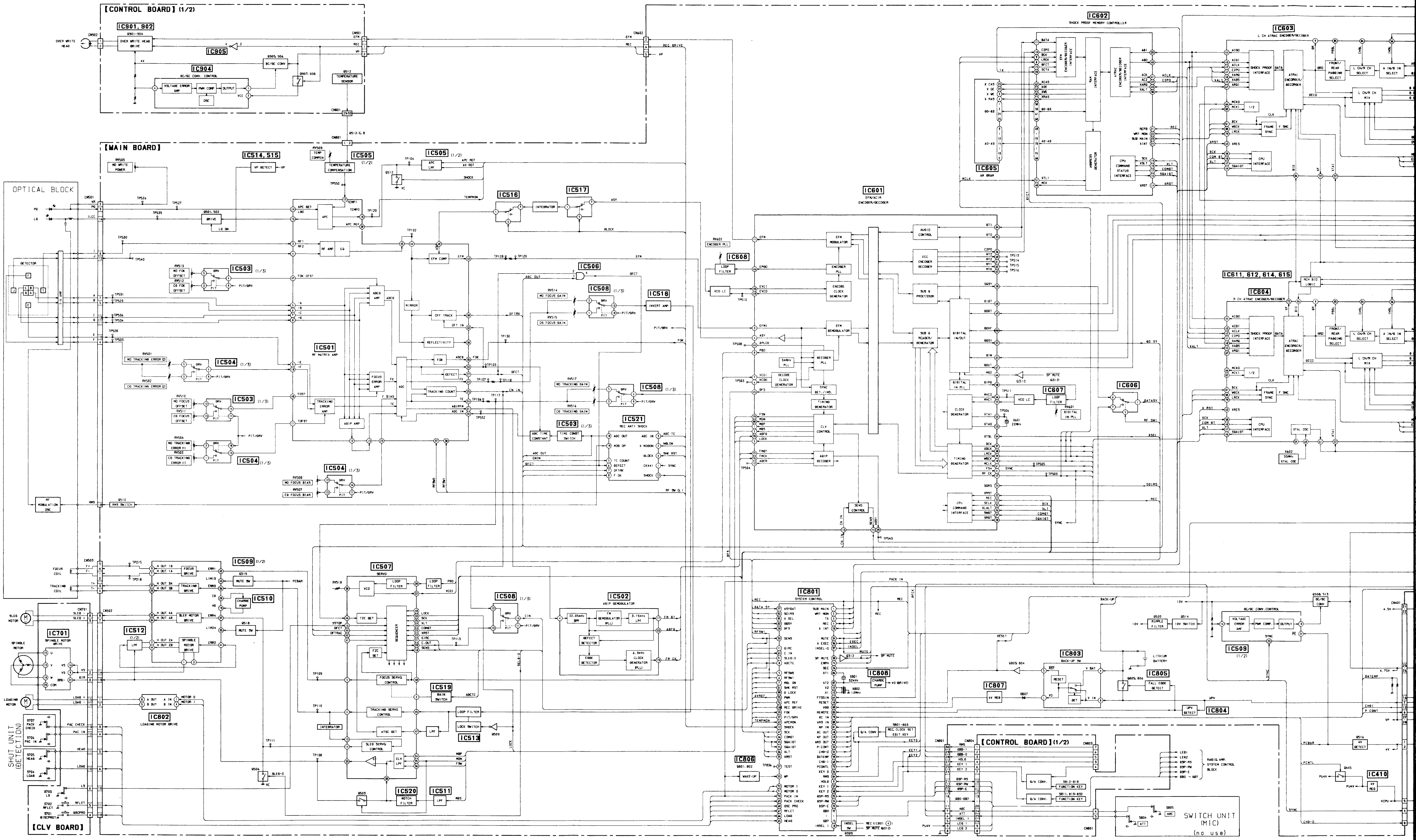
— MAIN UNIT —

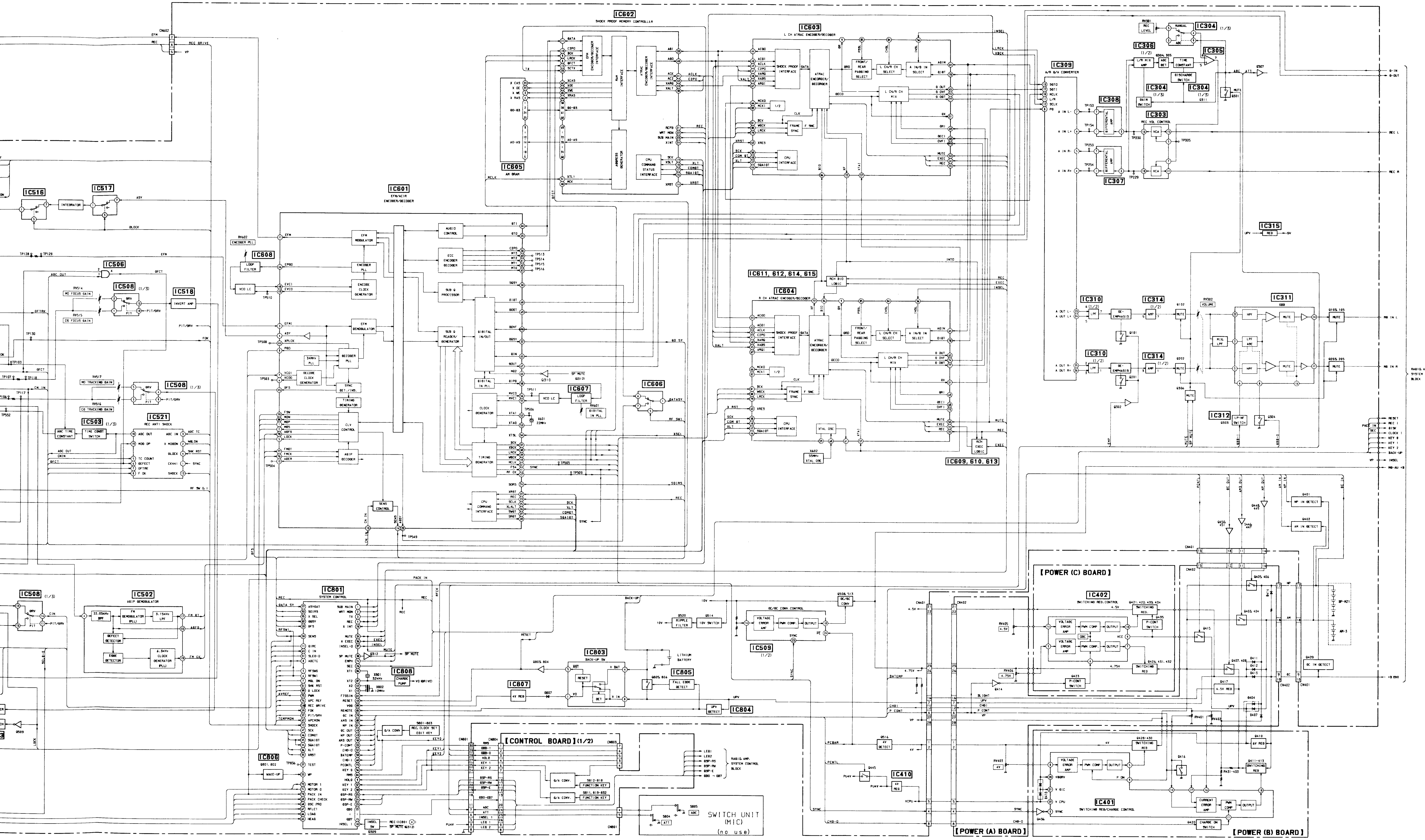

LOOP ANTENNA BOARD
RADIO BOARD
AUDIO SWITCH BOARD-1
DECODER BOARD
DIGITAL IN BOARD
AUDIO SWITCH BOARD-2
MAIN BOARD
ANTENNA TERMINAL BOARD
MD POWER BOARD
INLET BOARD
CONTROL BOARD
POWER SW BOARD
RELAY BOARD
VOL BOARD

— MD BLOCK —

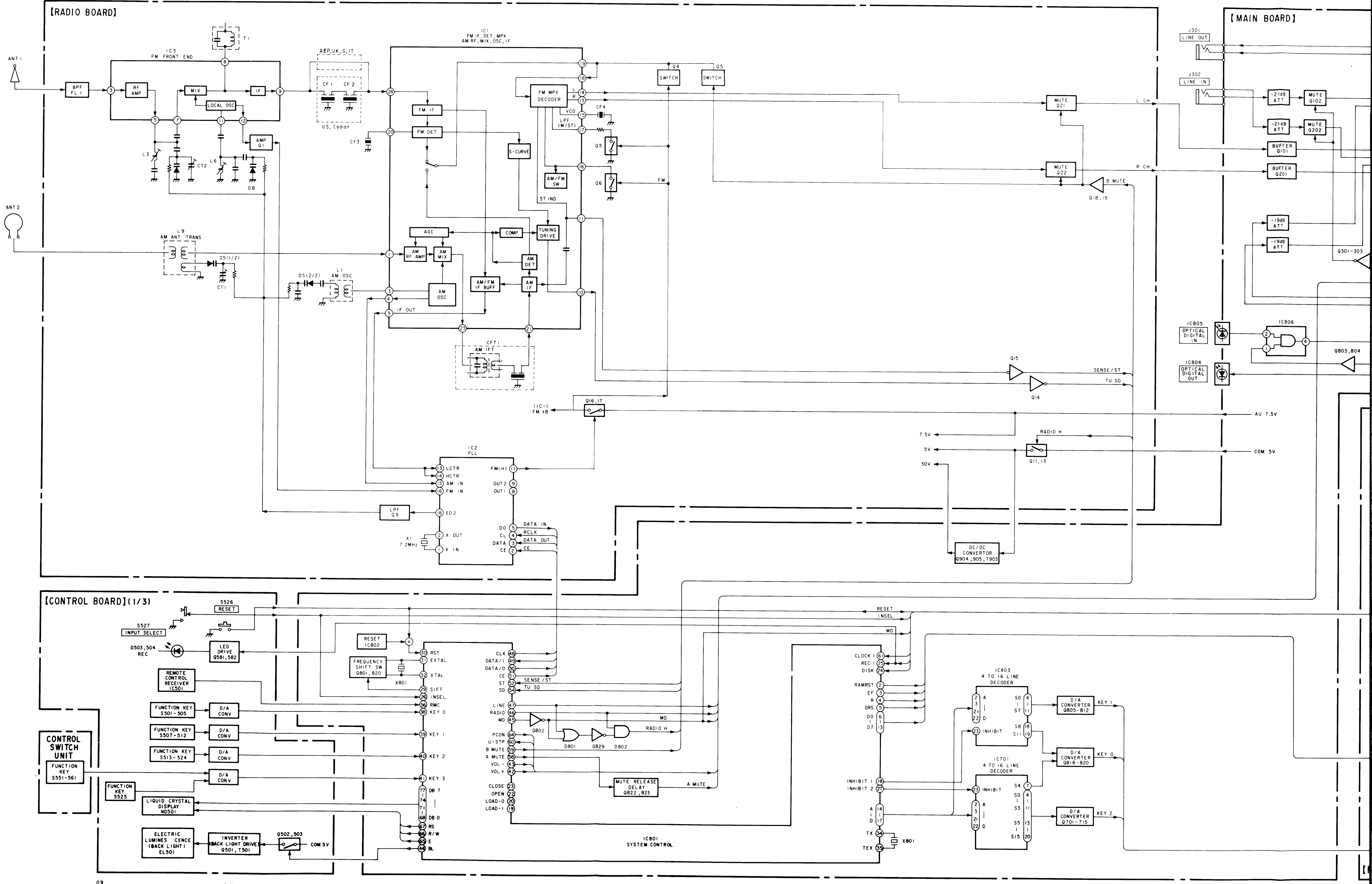

POWER (A) BOARD
POWER (C) BOARD
POWER (B) BOARD
CONTROL BOARD (MD)
MAIN BOARD (MD)
I O BOARD
CLV BOARD
FILTER BOARD

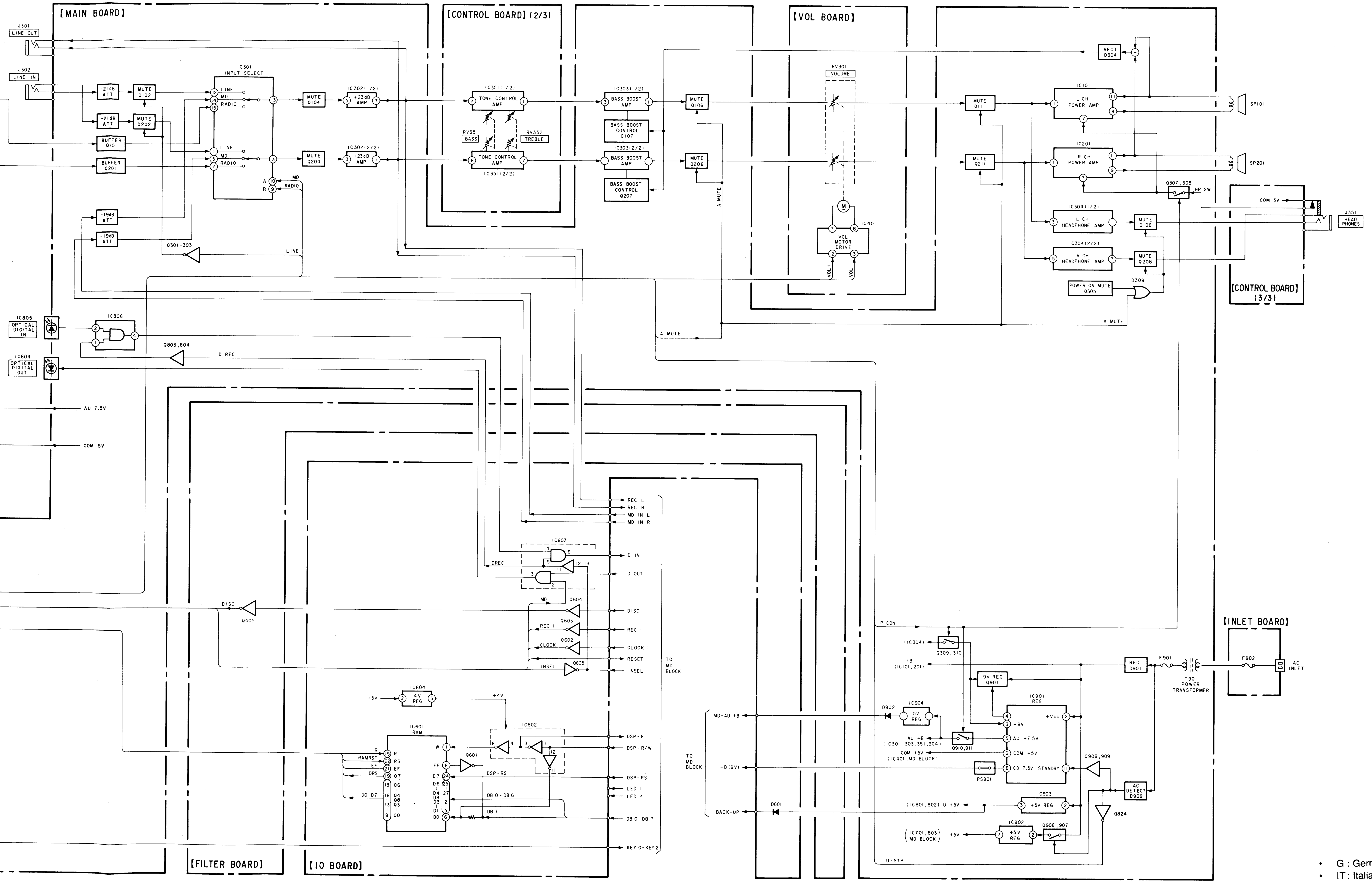
4-2. BLOCK DIAGRAM (1)


[CONTROL BOARD] (1/2)
IC901, 902
IC905
IC904
[MAIN BOARD]
OPTICAL BLOCK
IC514, 515
IC505
IC516
IC517
IC506
IC503
IC508
IC518
IC504
IC501
IC521
IC509
IC510
IC507
IC502
IC512
IC701
IC802
IC519
IC513
IC520
IC511
IC602
IC603
IC605
IC601
IC608
IC611, 612, 614, 615
IC604
IC606
IC607
IC801
IC803
IC805
IC807
IC808
IC806
IC804
IC509
IC410
[CONTROL BOARD] (1/2)
SWITCH UNIT (MIC)
(no use)
SHUT UNIT (DETECTION)
[CLV BOARD]
SLED MOTOR
SPINDLE MOTOR
LOADING MOTOR
OVER WRITE HEAD
FOCUS COIL
TRACKING COIL
LITHIUM BATTERY


IC602
SHOCK PROOF MEMORY CONTROLLER
IC605
4M DRAM
IC603
L CH ATRAC ENCODER/DECODER
SHOCK PROOF INTERFACE
ATRAC ENCODER/DECODER
FRONT/REAR PADDING SELECT
L CH/R CH SELECT
A IN/B IN SELECT
L CH/R CH MIX
FRAME SYNC
CPU INTERFACE
IC309
A/D D/A CONVERTER
IC304 (1/3)
IC306 (1/2)
IC305
IC304 (1/3)
IC308
IC303
REC VOL CONTROL
IC307
DIFFERENTIAL AMP
TIME CONSTANT
GAIN SWITCH
RV301 REC LEVEL
MANUAL
AGC
MUTE
Q507
REC L
REC R
IC516
INTEGRATOR
IC517
IC601
EFM/ACIRC ENCODER/DECODER
RV602 ENCODER PLL
IC608
LOOP FILTER
VCO LC
EFM MODULATOR
ENCODER PLL
ENCODE CLOCK GENERATOR
AUDIO CONTROL
ECC ENCODER DECODER
SUB Q PROCESSOR
SUB Q READER/GENERATOR
DIGITAL IN/OUT
DIGITAL IN PLL
EFM DEMODULATOR
DECODER PLL
DECODE CLOCK GENERATOR
SYNC DET./INS.
TIMING GENERATOR
CLV CONTROL
ADIP DECODER
CLOCK GENERATOR
CPU COMMAND INTERFACE
SERVO CONTROL
IC607
LOOP FILTER
VCO LC
SP MUTE
Q310
X601 22MHz
IC606
IC506
IC508 (1/3)
RV514 MO FOCUS GAIN
RV515 CD FOCUS GAIN
IC518
INVERT AMP
RV517 MO TRACKING GAIN
RV516 CD TRACKING GAIN
IC508 (1/3)
IC503 (1/3)
TIME CONST SWITCH
AGC TIME CONSTANT
IC521
REC ANTI SHOCK
IC611, 612, 614, 615
IC604
R CH ATRAC ENCODER/DECODER
RCH BIO LOGIC
XTAL OSC
X602 55MHz XTAL OSC
RCH EXEC LOGIC
IC609, 610, 613
IC315
REG
IC310 (1/2)
LPF
DE-EMPHASIS
IC314 (1/2)
AMP
RV302 VOLUME
IC311
MIX LPF
LPF AGC
HPF
MUTE
IC312
LPF/HF SWITCH
Q304
MD IN L
MD IN R
RADIO AMP. SYSTEM CONTROL BLOCK
IC508 (1/3)
IC502
ADIP DEMODULATOR
22.05kHz BPF
FM DEMODULATOR (PLL)
3.15kHz LPF
DEFECT DETECTOR
EDGE DETECTOR
6.3kHz CLOCK GENERATOR (PLL)
IC801
SYSTEM CONTROL
X801 32kHz
X802 12MHz
IC808
CHARGE PUMP
IC807
4V REG
IC803
BACK-UP SW
RESET
SET
IC805
FALL DOWN DETECT
LITHIUM BATTERY
UPV DETECT
IC804
Q520 RIPPLE FILTER
Q514 10V SWITCH
DC/DC CONV. CONTROL
VOLTAGE ERROR AMP
PWM COMP.
OUTPUT
IC509 (1/2)
Q508, 513 DC/DC CONV
IC806
Q801, 802
WAKE-UP
A/D CONV.
REC, CLOCK SET EDIT KEY
S801-803
【CONTROL BOARD】(1/2)
A/D CONV.
S812-818 FUNCTION KEY
S811, 819-832 FUNCTION KEY
RADIO AMP. SYSTEM CONTROL BLOCK
SWITCH UNIT (MIC) (no use)
S804
S805
AGC
ATT
【POWER (C) BOARD】
IC402
SWITCHING REG.CONTROL
VOLTAGE ERROR AMP
OSC
PWM COMP.
OUTPUT
SWITCHING REG.
P-CONT SWITCH
4.75V
Q423 P-CONT SWITCH
Q415
Q417 4.5V REG
IC410
4V REG
Q416
Q420 CHARGE ON SWITCH
IC401
SWITCHING REG/CHARGE CONTROL
VOLTAGE ERROR AMP
PWM COMP.
OUTPUT
CURRENT ERROR AMP
SWITCHING REG
Q418 4V REG
Q411-413 SWITCHING REG
【POWER (A) BOARD】
【POWER (B) BOARD】
Q401 HP IN DETECT
Q402 AM IN DETECT
Q409 DC IN DETECT
BP-M21
BP-3
CN401
CN402
CN801
CN804
CN803
CN802
+B DIN

4-3. BLOCK DIAGRAM (2)


[RADIO BOARD]
ANT 1
BPF FL 1
IC3 FM FRONT END
RF AMP
MIX
LOCAL OSC
IF
T1
AMP Q1
L3
CT2
L6
D8
AEP,UK,G,IT
CF 1
CF 2
US, Cadian
CF3
IC1 FM IF, DET, MPX AM RF, MIX, OSC, IF
FM IF
FM DET
S-CURVE
FM MPX DECODER
L
R
VCO
CF4
LPF (M/ST)
Q5
Q6
AM/FM SW
ST IND
Q4 SWITCH
Q5 SWITCH
FM
ANT 2
L9 AM ANT TRANS
D5(1/2)
CT1
D5(2/2)
L1 AM OSC
AGC
AM RF AMP
AM MIX
AM OSC
COMP
TUNING DRIVE
AM DET
AM/FM IF BUFF
AM IF
IF OUT
CFT1 AM IFT
MUTE Q21
MUTE Q22
L CH
R CH
B MUTE
Q18, 19
Q15
SENSE/ST
TU SD
Q14
(IC1) FM +B
Q16, 17
AU 7.5V
7.5V
5V
30V
RADIO H
Q11, 13
COM 5V
IC2 PLL
LCTR
HCTR
AM IN
FM IN
EO2
LPF Q8
X1 7.2MHz
X OUT
X IN
FM(H)
OUT2
OUT1
DO
CL
DATA
CE
DATA IN
RCLK
DATA OUT
CE
DC/DC CONVERTOR Q904, 905, T903
[MAIN BOARD]
J301 LINE OUT
J302 LINE IN
-21dB ATT
MUTE Q102
MUTE Q202
BUFFER Q101
BUFFER Q201
-19dB ATT
Q301-303
IC805 OPTICAL DIGITAL IN
IC806
IC804 OPTICAL DIGITAL OUT
Q803, 804
[CONTROL BOARD] (1/3)
S526 RESET
S527 INPUT SELECT
D503, 504 REC
LED DRIVE Q581, 582
REMOTE CONTROL RECEIVER IC501
FUNCTION KEY S501-505
FUNCTION KEY S507-512
FUNCTION KEY S513-524
D/A CONV
CONTROL SWITCH UNIT
FUNCTION KEY S551-561
FUNCTION KEY S525
LIQUID CRYSTAL DISPLAY ND501
ELECTRIC LUMINES CENCE (BACK LIGHT) EL501
INVERTER (BACK LIGHT DRIVE) Q501, T501
Q502, 503
COM 5V
RESET IC802
FREQUENCY SHIFT SW Q801, 820
X801
RST
EXTAL
XTAL
SIFT
INSEL
RMC
KEY 0
KEY 1
KEY 2
KEY 3
DB 7
DB 0
RS
R/W
E
BL
CLK
DATA/I
DATA/O
CE
ST
SD
SENSE/ST
TU SD
LINE
RADIO
MD
Q802
D801
Q829
D802
RADIO H
PCON
U-STP
B MUTE
A MUTE
VOL -
VOL +
MUTE RELEASE DELAY Q822, 823
A MUTE
CLOSE
OPEN
LOAD-0
LOAD-1
IC801 SYSTEM CONTROL
RESET
INSEL
MD
CLOCK 1
REC 1
DISK
RAMRST
EF
R
DRS
D0
D7
INHIBIT 1
INHIBIT 2
A
D
TX
TEX
X801
IC803 4 TO 16 LINE DECODER
INHIBIT
S0
S7
S8
S11
IC701 4 TO 16 LINE DECODER
S4
S3
S5
S15
D/A CONVERTER Q805-812
D/A CONVERTER Q818-820
D/A CONVERTER Q701-715
KEY 1
KEY 0
KEY 2


[MAIN BOARD]
J301 LINE OUT
J302 LINE IN
-21dB ATT
MUTE Q102
MUTE Q202
BUFFER Q101
BUFFER Q201
IC301 INPUT SELECT
LINE
MD
RADIO
MD
RADIO
MUTE Q104
MUTE Q204
IC302 (1/2) +23dB AMP
IC302 (2/2) +23dB AMP
-19dB ATT
Q301-303
LINE
IC805 OPTICAL DIGITAL IN
IC806
IC804 OPTICAL DIGITAL OUT
Q803,804
D REC
AU 7.5V
COM 5V
[CONTROL BOARD] (2/3)
IC351 (1/2) TONE CONTROL AMP
IC351 (2/2) TONE CONTROL AMP
RV351 BASS
RV352 TREBLE
IC303 (1/2) BASS BOOST AMP
BASS BOOST CONTROL Q107
IC303 (2/2) BASS BOOST AMP
BASS BOOST CONTROL Q207
MUTE Q106
MUTE Q206
A MUTE
[VOL BOARD]
RV301 VOLUME
M
IC401 VOL MOTOR DRIVE
VOL+
VOL-
RECT D304
MUTE Q111
MUTE Q211
IC101 L CH POWER AMP
IC201 R CH POWER AMP
SP101
SP201
Q307,308
HP SW
COM 5V
J351 HEAD PHONES
IC304 (1/2) L CH HEADPHONE AMP
IC304 (2/2) R CH HEADPHONE AMP
MUTE Q108
MUTE Q208
POWER ON MUTE Q305
D309
[CONTROL BOARD] (3/3)
A MUTE
IC603
DREC
D IN
D OUT
DISC
Q405
Q604
Q603
Q602
Q605
REC L
REC R
MD IN L
MD IN R
DISC
REC I
CLOCK I
RESET
INSEL
TO MD BLOCK
IC604 4V REG
+5V
+4V
IC602
IC601 RAM
R
RAMRST
EF
DRS
D0-D7
Q601
DSP-RS
DB 0 - DB 6
DB 7
DSP-E
DSP-R/W
DSP-RS
LED 1
LED 2
DB 0 - DB 7
KEY 0 - KEY 2
[FILTER BOARD]
[IO BOARD]
P CON
(IC304)
Q309,310
+B (IC101,201)
9V REG Q901
RECT D901
F901
T901 POWER TRANSFORMER
[INLET BOARD]
F902
AC INLET
MD-AU +B
D902
IC904 5V REG
IC901 REG
+Vcc
+9V
AU +7.5V
COM +5V
CD 7.5V STANDBY
AU +B (IC301-303,351,904)
COM +5V (IC401, MD BLOCK)
Q910,911
TO MD BLOCK
+B (9V)
PS901
Q908,909
AC DETECT D909
BACK-UP
D601
(IC801,802) U +5V
IC903 +5V REG
Q824
(IC701,803 MD BLOCK) +5V
IC902 +5V REG
Q906,907
U-STP

- G : German model
- IT : Italian model

4-4. PRINTED WIRING BOARDS

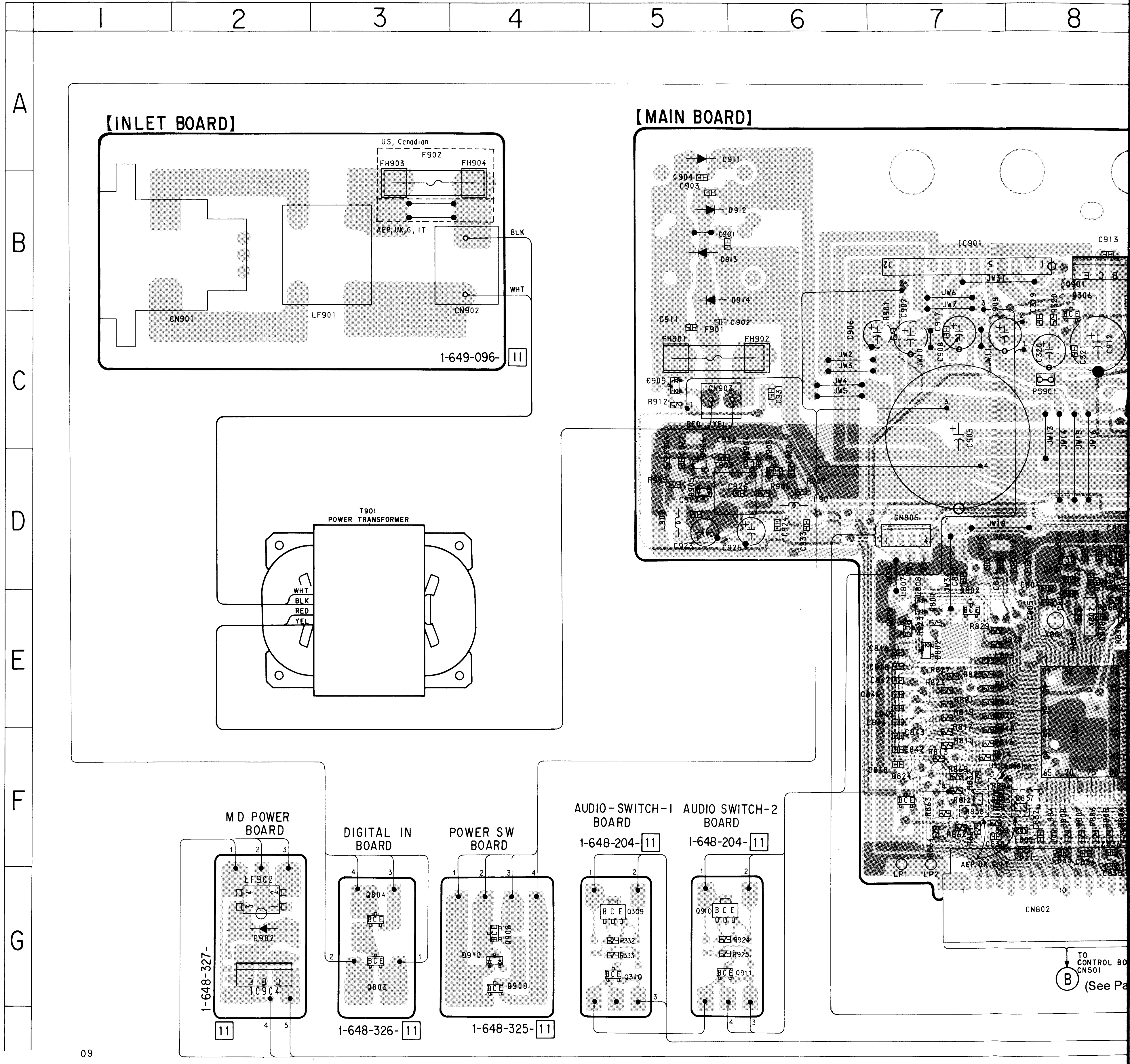
- **MAIN SECTION 1 (MAIN, DECODER, VOL and INLET board)**
- **See page 37 for Circuit Boards Location and see page 91 for Semiconductor Lead Layouts.**

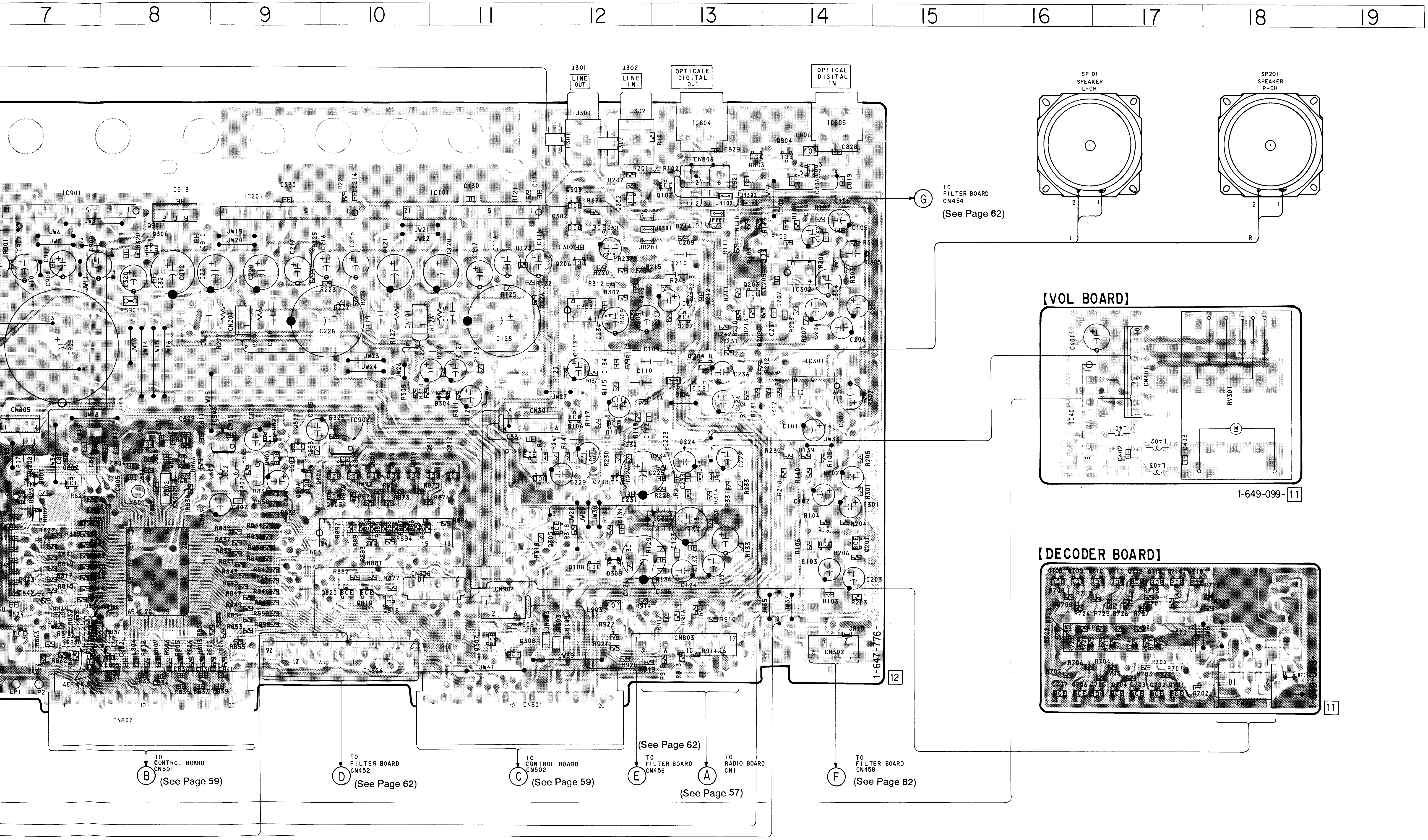
• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D304	D-11	Q303	B-12
D309	E-12	Q305	E-12
D701	F-18	Q306	B-8
D801	E-7	Q307	F-11
D802	E-7	Q308	F-11
D902	G-2	Q309	G-5
D903	D-9	Q310	G-5
D905	D-5	Q701	G-17
D906	D-5	Q702	G-17
D909	C-5	Q703	G-17
D910	G-4	Q704	G-17
D911	A-5	Q705	G-17
D912	B-5	Q706	G-16
D913	B-5	Q707	G-16
D914	C-5	Q708	E-16
		Q709	E-16
IC101	B-10	Q710	E-17
IC201	B-9	Q711	E-17
IC301	D-14	Q712	E-17
IC302	C-14	Q713	E-17
IC303	C-12	Q714	E-17
IC304	E-13	Q715	E-17
IC401	D-16	Q801	D-8
IC701	F-17	Q802	E-7
IC801	E-8	Q803	G-3
IC802	E-9	Q804	G-3
IC803	E-10	Q805	E-10
IC804	A-13	Q806	E-10
IC805	A-14	Q807	E-10
IC806	B-14	Q808	E-10
IC901	B-7	Q809	E-10
IC902	D-10	Q810	E-10
IC903	D-9	Q811	E-11
IC904	G-2	Q812	E-11
		Q818	F-10
Q101	E-14	Q819	F-10
Q102	B-13	Q820	F-10
Q103	C-14	Q822	D-9
Q104	D-13	Q823	D-9
Q106	D-12	Q824	F-7
Q107	D-12	Q826	D-8
Q108	E-12	Q829	E-7
Q111	D-11	Q901	B-8
Q201	E-14	Q904	D-6
Q202	B-12	Q905	D-6
Q204	D-13	Q906	E-9
Q203	C-14	Q907	D-9
Q206	C-12	Q908	G-4
Q207	C-13	Q909	G-4
Q208	E-12	Q910	G-5
Q211	E-11	Q911	G-5
Q301	B-12		
Q302	B-12		

Note:

- ░ : Pattern on the side which is seen.
- ▒ : Pattern of the rear side.
- G : German model
- IT : Italian model


1
2
3
4
5
6
7
8
A
B
C
D
E
F
G
【INLET BOARD】
US, Canadian
F902
FH903
FH904
AEP, UK, G, IT
BLK
WHT
CN901
LF901
CN902
1-649-096- 11
【MAIN BOARD】
D911
D912
D913
D914
IC901
C913
F901
FH901
FH902
CN903
RED
YEL
T901
POWER TRANSFORMER
WHT
BLK
RED
YEL
CN805
JW18
CN802
AEP, UK, G, IT
LP1
LP2
TO CONTROL BOARD CN501
B
(See Pa
M D POWER BOARD
LF902
D902
IC904
1-648-327-
11
DIGITAL IN BOARD
Q804
Q803
1-648-326- 11
POWER SW BOARD
D910
Q908
Q909
1-648-325- 11
AUDIO-SWITCH-1 BOARD
1-648-204- 11
Q309
R332
R333
Q310
AUDIO SWITCH-2 BOARD
1-648-204- 11
Q910
R924
R925
Q911
09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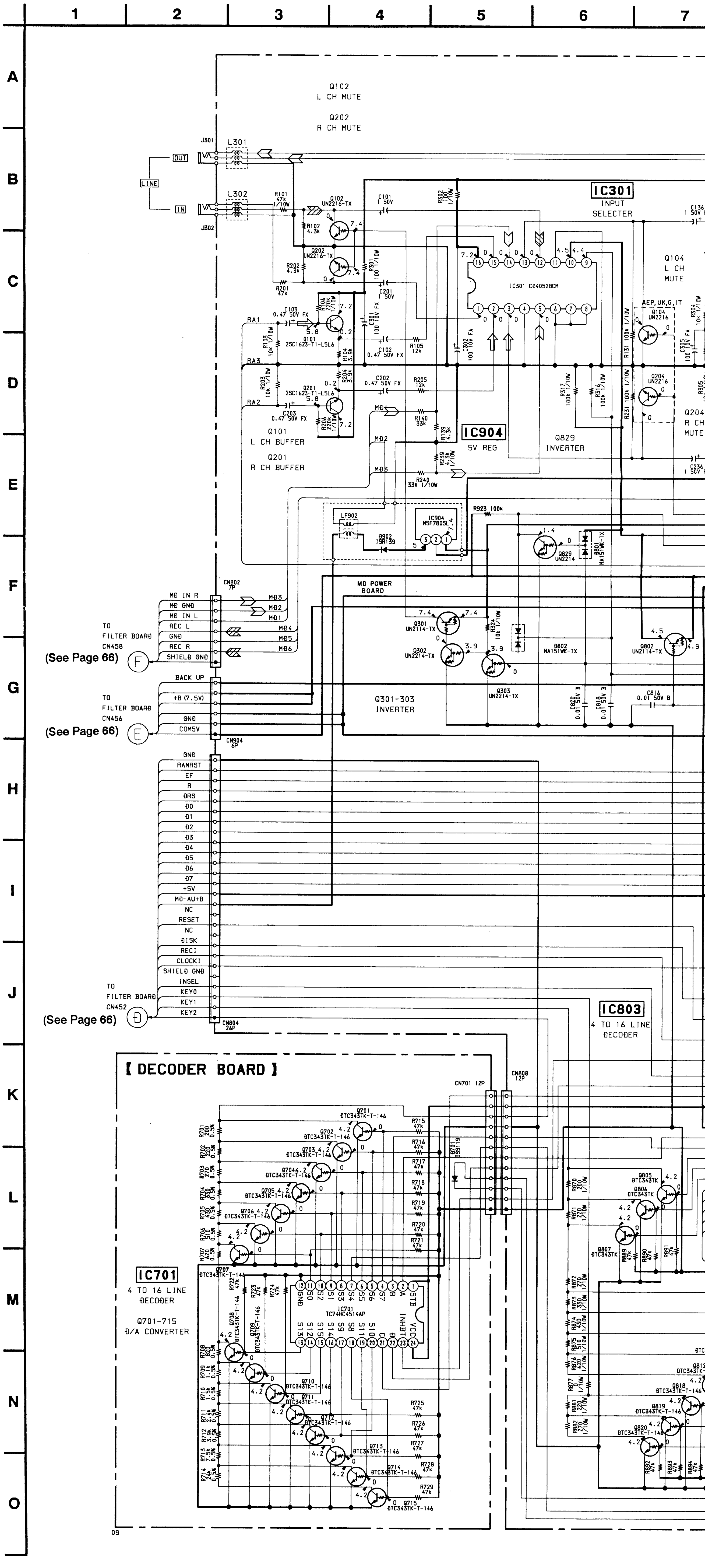
15
16
17
18
19
J301
LINE OUT
J302
LINE IN
OPTICALE DIGITAL OUT
OPTICAL DIGITAL IN
IC804
IC805
IC901
IC201
IC101
SP101 SPEAKER L-CH
SP201 SPEAKER R-CH
TO FILTER BOARD CN454
(See Page 62)
[VOL BOARD]
RV301
IC401
CN401
1-649-099-11
[DECODER BOARD]
IC701
CN701
1-649-098-11
1-647-776-12
CN802
CN804
CN801
CN803
CN302
TO CONTROL BOARD CN501
(See Page 59)
TO FILTER BOARD CN452
(See Page 62)
TO CONTROL BOARD CN502
(See Page 59)
(See Page 62)
TO FILTER BOARD CN456
TO RADIO BOARD CN1
(See Page 57)
TO FILTER BOARD CN458
(See Page 62)
AEP,UK,E

4-5. SCHEMATIC DIAGRAMS

• MAIN SECTION 1 (MAIN, DECODER, VOL and INLET board)

• See page 92, 93 for IC Block Diagrams.


1
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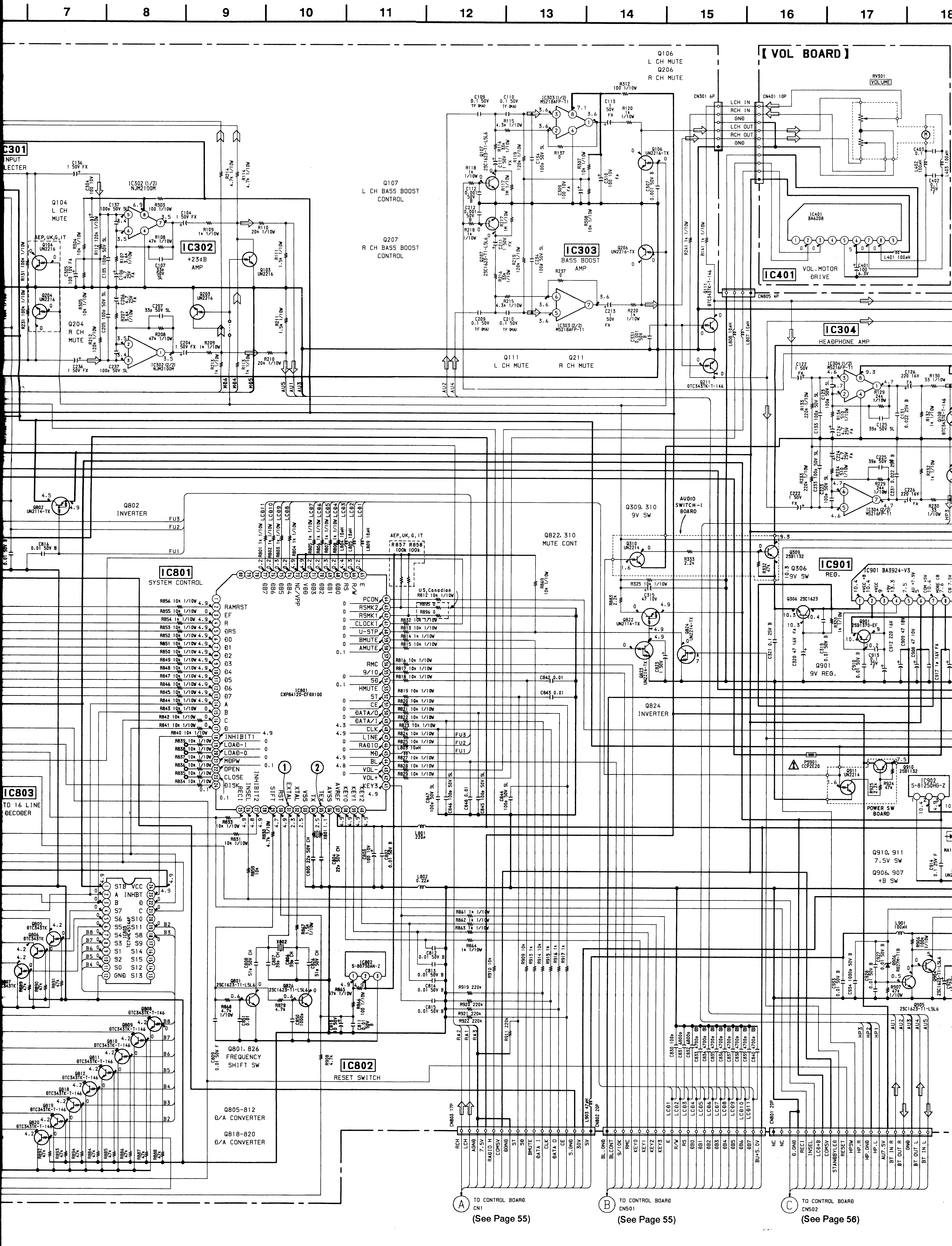
4
5
6
7
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
Q102
L CH MUTE
Q202
R CH MUTE
J301
L301
OUT
LINE
IN
J302
L302
IC301
INPUT
SELECTER
IC301 CD4052BCM
Q104
L CH
MUTE
Q204
R CH
MUTE
Q101
L CH BUFFER
Q201
R CH BUFFER
IC904
5V REG
IC904
MSF7805L
Q829
INVERTER
LF902
D902
1SR139
MD POWER
BOARD
Q301-303
INVERTER
CN302
7P
MD IN R
MD GND
MD IN L
REC L
GND
REC R
SHIELD GND
TO
FILTER BOARD
CN458
(See Page 66)
F
BACK UP
+B (7.5V)
GND
COMSV
TO
FILTER BOARD
CN456
(See Page 66)
E
CN904
6P
GND
RAMRST
EF
R
DRS
D0
D1
D2
D3
D4
D5
D6
D7
+5V
MD-AU+B
NC
RESET
NC
DISK
RECI
CLOCKI
SHIELD GND
INSEL
KEY0
KEY1
KEY2
TO
FILTER BOARD
CN452
(See Page 66)
D
CN804
26P
IC803
4 TO 16 LINE
DECODER
[DECODER BOARD]
CN701 12P
CN808
12P
IC701
4 TO 16 LINE
DECODER
Q701-715
D/A CONVERTER
IC701
TC74HC4514AP
09

Note:

- All capacitors are in μF unless otherwise noted. pF:μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- -w~- : fusible resistor.
- ▭ : Panel designation.

Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- ▬ : B+ Line
- ▭ : adjustment for repair.
- Voltages are taken with a VOM (Input impedance 10Ω). Voltage variations may be noted due to normal production tolerances.
  no mark : FM
- Signal path.
  ⇒ : PB (ANALOG OUT) ⇛ : PB (DIGITAL OUT)
  ⇒ : REC (ANALOG IN) ⇛ : REC (DIGITAL IN)
  ⇨ : FM
- G : German model
- IT : Italian model


7
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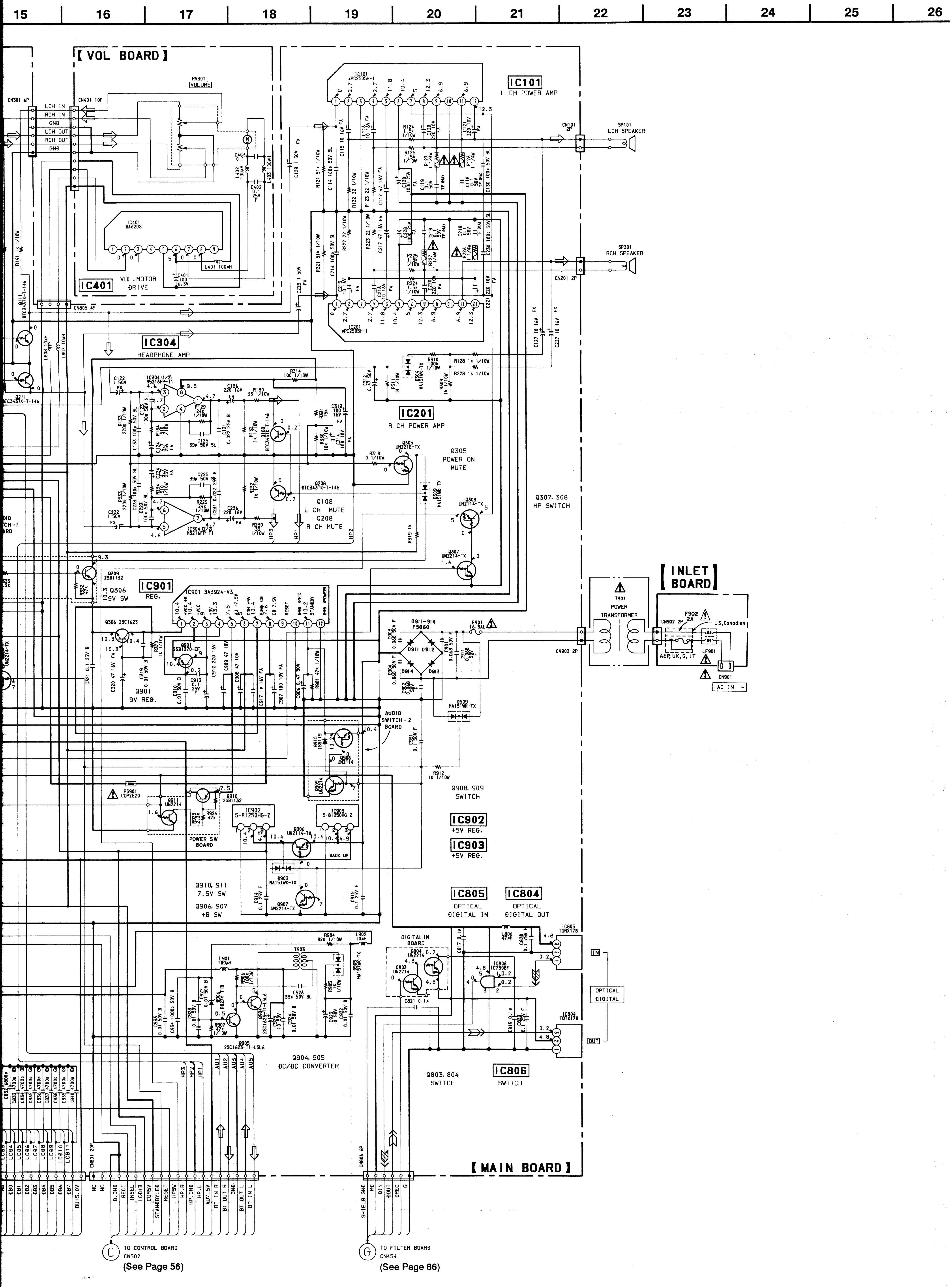
15
16
17
[VOL BOARD]
RV301 VOLUME
IC301 INPUT SELECTER
Q104 L CH MUTE
Q204 R CH MUTE
IC302 +23dB AMP
IC302 (1/2) NJM2100M
IC302 (2/2) NJM2100M
Q107 L CH BASS BOOST CONTROL
Q207 R CH BASS BOOST CONTROL
Q106 L CH MUTE
Q206 R CH MUTE
IC303 BASS BOOST AMP
IC303 (1/2) M5218AFP-T1
IC303 (2/2) M5218AFP-T1
Q111 L CH MUTE
Q211 R CH MUTE
CN301 6P
CN401 10P
LCH IN
RCH IN
GND
LCH OUT
RCH OUT
GND
IC401 BA6208
IC401 VOL. MOTOR DRIVE
CN805 4P
IC304 HEADPHONE AMP
IC304 (1/2) M5216FP-T1
IC304 (2/2) M5216FP-T1
Q802 INVERTER
FU3
FU2
FU1
IC801 SYSTEM CONTROL
IC801 CXP84120-CF6X100
AEP,UK,G,IT
US,Canadian
RAMRST
EF
R
DRS
D0
D1
D2
D3
D4
D5
D6
D7
A
B
C
D
INHIBIT1
LOAD-I
LOAD-O
MDPW
OPEN
CLOSE
DISK
PCON
RSMK2
RSMK1
CLOCK1
U-STP
BMUTE
AMUTE
RMC
9/10
SO
HMUTE
ST
CE
DATA/O
DATA/I
CLK
LINE
RADIO
MD
BL
VOL-
VOL+
KEY3
Q309, 310 9V SW
AUDIO SWITCH-I BOARD
Q822, 310 MUTE CONT
Q824 INVERTER
Q306 9V SW
IC901 REG.
IC901 BA3924-V3
Q901 9V REG.
POWER SW BOARD
IC902 S-81250HG-Z
Q910, 911 7.5V SW
Q906, 907 +B SW
IC803 TO 16 LINE DECODER
IC802 S-80730AN-Z
IC802 RESET SWITCH
Q801, 826 FREQUENCY SHIFT SW
Q805-812 D/A CONVERTER
Q818-820 D/A CONVERTER
CN803 17P
CN802 20P
CN801 20P
RCH
LCH
AGND
7.5V
RADIO H
COM5V
ST
SO
BMUTE
DATA I
CLK
DATA O
CE
S.GND
30V
5V
BL.GND
BLCONT
9/10K
RMC
KEY0
KEY1
KEY2
KEY3
E
R/W
RS
DB0
DB1
DB2
DB3
DB4
DB5
DB6
DB7
BU+5.0V
NC
NC
D.GND
RECI
INSEL
LCD+B
COM5V
STANDBYLED
RESET
HPSW
HP.R
HP.GND
HP.L
AU7.5V
BT IN R
BT OUT R
GND
BT OUT L
BT IN L
Ⓐ TO CONTROL BOARD CN1 (See Page 55)
Ⓑ TO CONTROL BOARD CN501 (See Page 55)
Ⓒ TO CONTROL BOARD CN502 (See Page 56)


15
16
17
18
19
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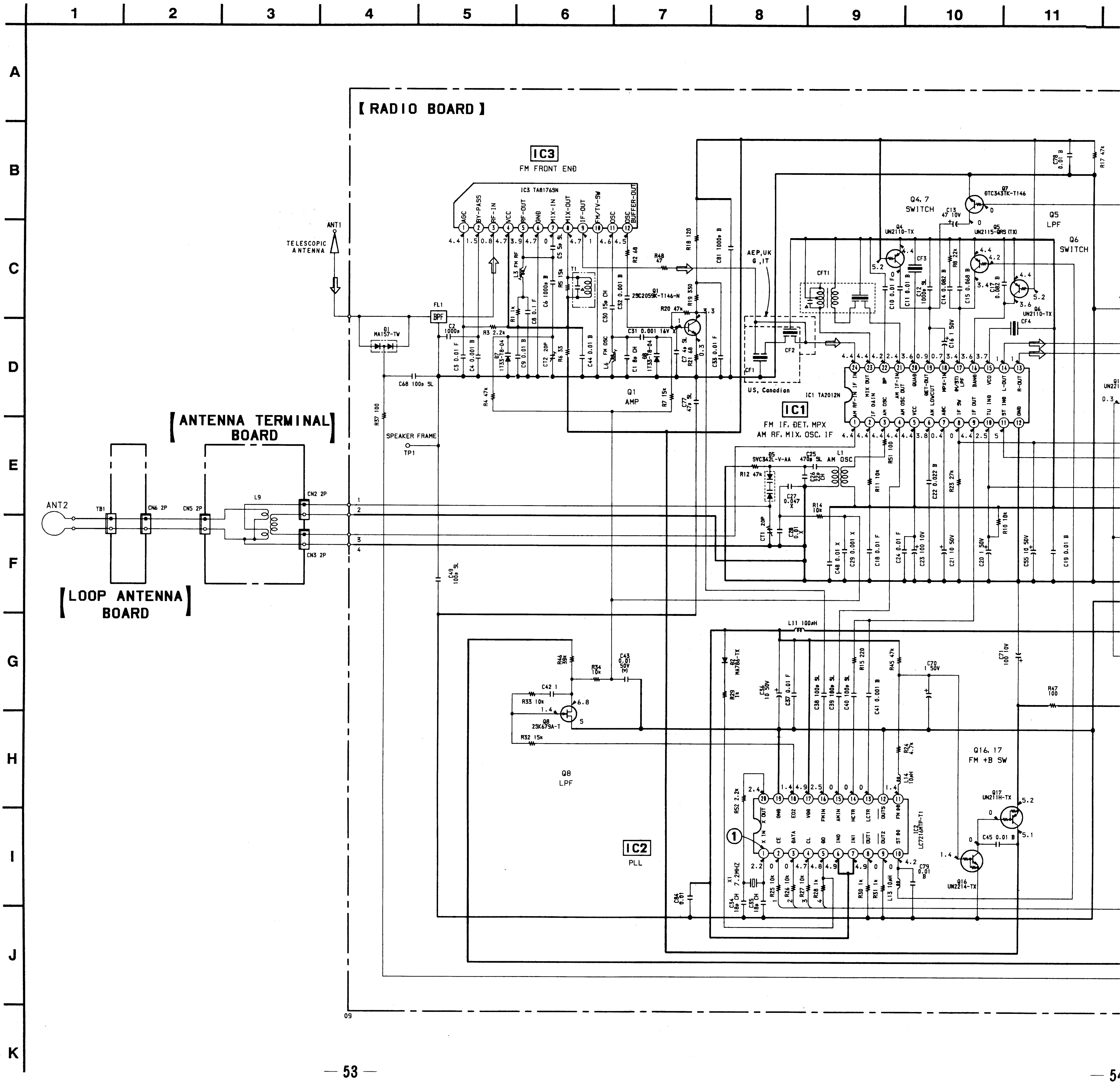
21
22
23
24
25
26
[VOL BOARD]
RV301 VOLUME
CN301 6P
CN401 10P
LCH IN
RCH IN
GND
LCH OUT
RCH OUT
GND
IC401 BA6208
IC401
VOL. MOTOR DRIVE
L401 100μH
C401 100 6.3V
CN805 4P
IC101 μPC2505H-1
IC101
L CH POWER AMP
CN101 2P
SP101 LCH SPEAKER
SP201 RCH SPEAKER
CN201 2P
IC201 μPC2505H-1
IC201
R CH POWER AMP
IC304
HEADPHONE AMP
IC304 (1/2) M5216FP-T1
IC304 (2/2) M5216FP-T1
Q108 L CH MUTE
Q208 R CH MUTE
Q305 POWER ON MUTE
Q305 UN221E-TX
Q308 UN2114-TX
Q307 UN2214-TX
Q307, 308 HP SWITCH
Q108 DTC343TK-T-146
Q208 DTC343TK-T-146
Q111 DTC343TK-T-146
Q211 DTC343TK-T-146
HP1
HP2
HP3
Q309 2SB1132
Q306 9V SW
IC901
REG.
IC901 BA3924-V3
Q306 2SC1623
Q901 2SB1370-EF
Q901 9V REG.
D911-914 F5060
F901 T6.3AL
T901 POWER TRANSFORMER
CN903 2P
[INLET BOARD]
CN902 2P
F902 2A
US, Canadian
AEP, UK, G, IT
LF901
CN901
AC IN ~
D909 MA151WK-TX
AUDIO SWITCH-2 BOARD
Q908 UN2114
Q909 UN2214
D910 1SS119
R912 1k 1/10W
Q908, 909 SWITCH
IC902
+5V REG.
IC903
+5V REG.
PS901 CCP2E20
Q911 UN2214
Q910 2SB1132
POWER SW BOARD
IC902 S-81250HG-Z
IC903 S-81250HG-Z
Q906 UN2114-TX
BACK UP
D903 MA151WK-TX
Q907 UN2214-TX
Q910, 911 7.5V SW
Q906, 907 +B SW
IC805
OPTICAL DIGITAL IN
IC804
OPTICAL DIGITAL OUT
L902 10mH
R904 82k 1/10W
T903
L901 100μH
D905 MA151WK-TX
Q904 2SC1623-T1-L5L6
Q905 2SC1623-T1-L5L6
D904 RB271H-11B
Q904, 905 DC/DC CONVERTER
DIGITAL IN BOARD
Q804 UN2214
Q803 UN2214
IC806 TC7S08F
IC805 TORX178
IC804 TOTX178
IN
OUT
OPTICAL DIGITAL
L806 47μH
Q803, 804 SWITCH
IC806
SWITCH
AU1
AU2
AU3
AU4
AU5
[MAIN BOARD]
CN801 20P
CN806 6P
NC
NC
D.GND
RECI
INSEL
COMSV
STANBYLED
RESET
HPSW
HP.GND
HP.L
AU7.5V
BT OUT R
GND
BT OUT L
BT IN L
BU+5.0V
DB0
DB1
DB2
DB3
DB4
DB5
DB6
DB7
LCD4
LCD5
LCD6
LCD7
LCD8
LCD9
LCD10
LCD11
SHIELD GND
MD
DIN
DOUT
DREC
D
C
TO CONTROL BOARD CN502
(See Page 56)
G
TO FILTER BOARD CN454
(See Page 66)

4-6. SCHEMATIC DIAGRAMS

• MAIN SECTION 2 (CONTROL, CONTROL UNIT, RELAY, RADIO, ANTENNA TERMINAL and LOOP ANTENNA board)

• See page 92, 93 for IC Block Diagrams.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7
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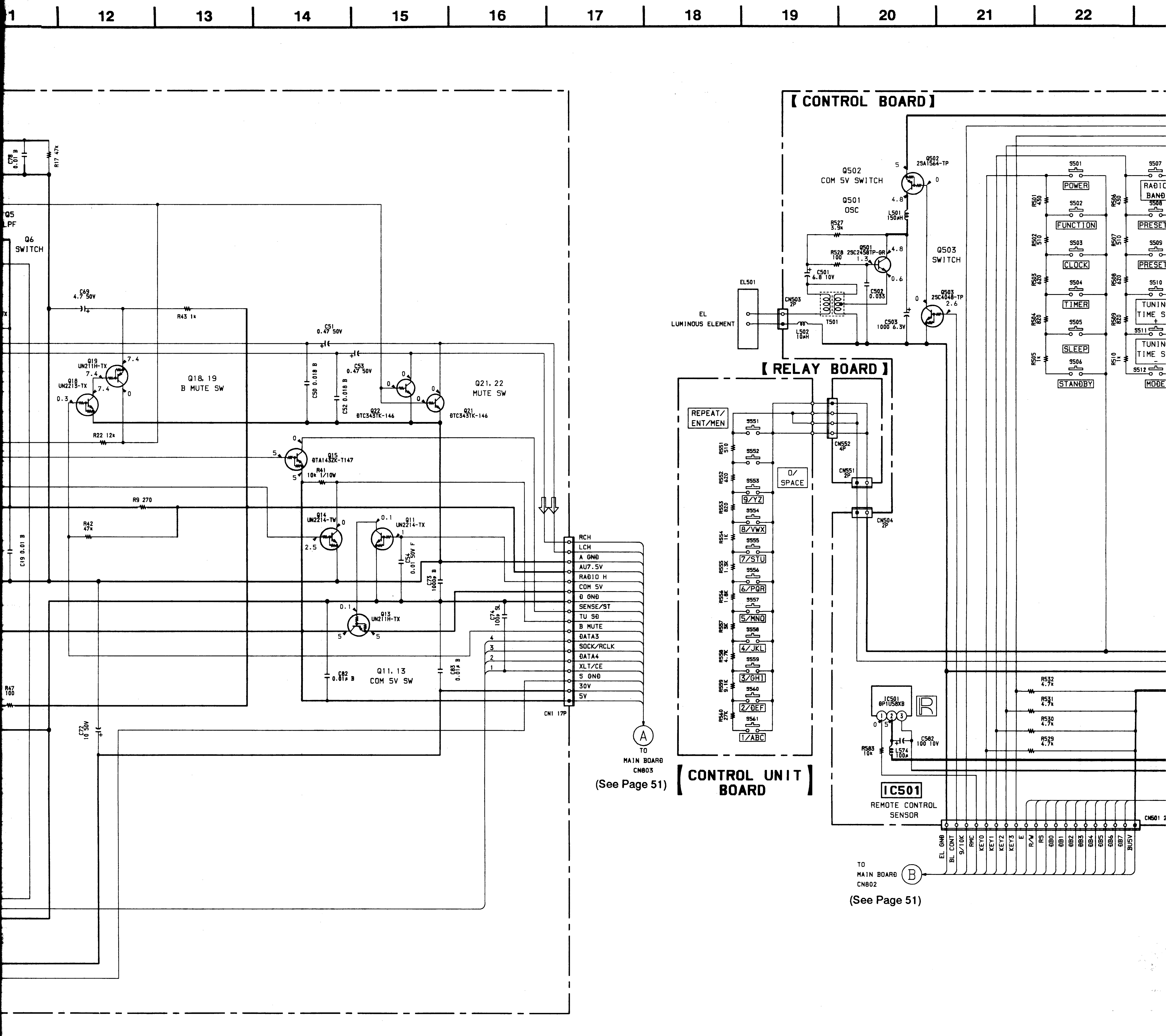
9
10
11
A
B
C
D
E
F
G
H
I
J
K
[RADIO BOARD]
IC3
FM FRONT END
IC3 TA8176SN
AGC
BY-PASS
RF-IN
VCC
RF-OUT
GND
MIX-IN
MIX-OUT
IF-OUT
FM/TV-SW
OSC
OSC BUFFER-OUT
ANT1
TELESCOPIC ANTENNA
FL1
BPF
D1 MA157-TW
C68 100p SL
R37 100
SPEAKER FRAME
TP1
Q1 AMP
Q1 2SC2059K-T146-N
AEP,UK G,IT
US, Canadian
CF1
CF2
CFT1
CF3
IC1
FM IF, DET, MPX
AM RF, MIX, OSC, IF
IC1 TA2012N
Q4, 7 SWITCH
Q7 DTC343TK-T146
Q4 UN2110-TX
Q5 UN2115-QRS (TX)
Q5 LPF
Q6 SWITCH
Q6 UN2110-TX
[ANTENNA TERMINAL BOARD]
[LOOP ANTENNA BOARD]
ANT2
TB1
CN6 2P
CN5 2P
L9
CN2 2P
CN3 2P
D5 SVC342L-V-AA
L1 AM OSC
L11 100μH
D2 MA700-TX
Q8 2SK679A-T
Q8 LPF
IC2
PLL
IC2 LC7216MTP-T1
X1 7.2MHZ
Q16, 17
FM +B SW
Q17 UN2111H-TX
Q16 UN2214-TX
①



11
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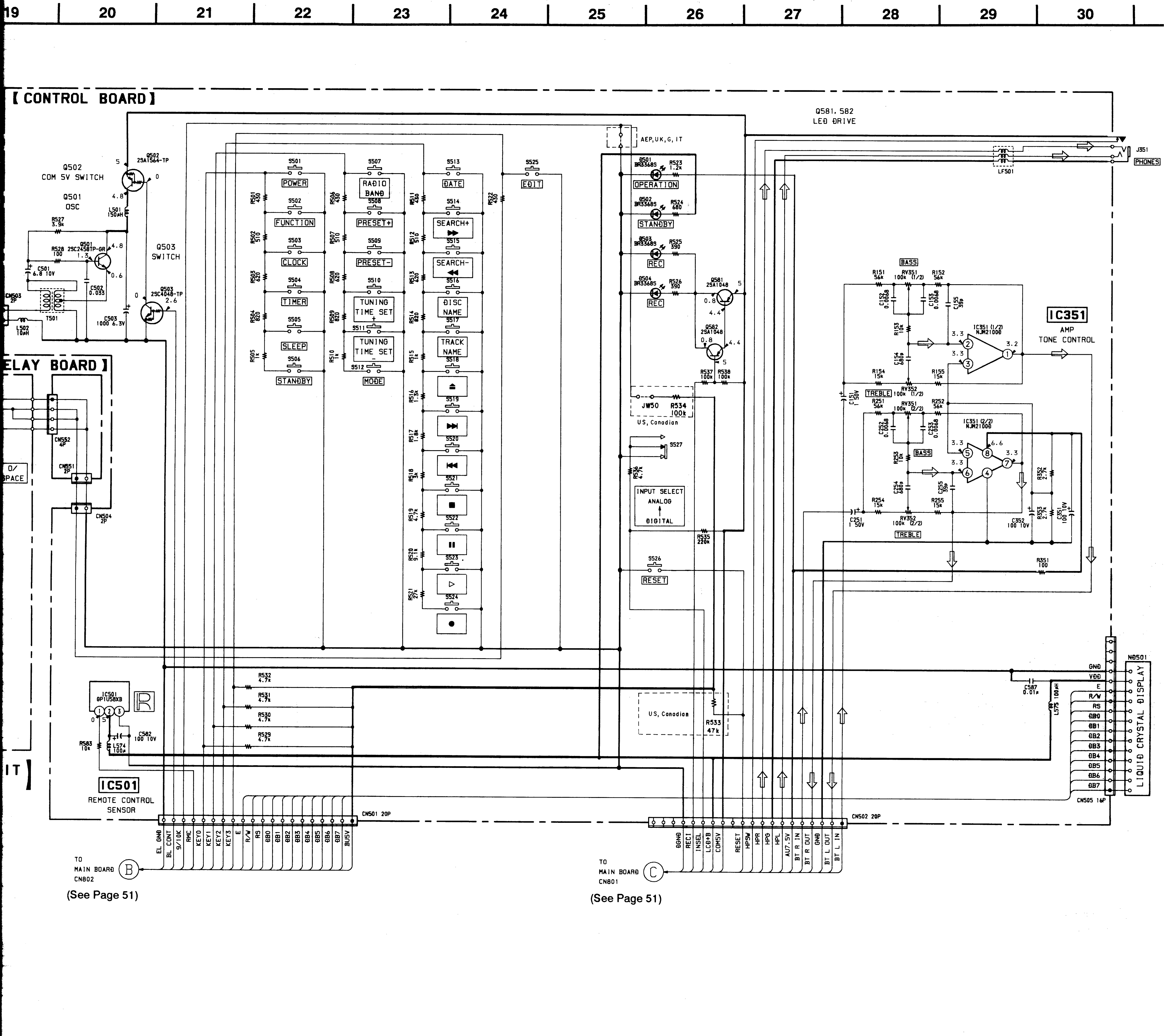
17
18
19
20
21
22
Q5
LPF
Q6
SWITCH
C78 0.01 B
R17 47k
C69 4.7 50V
R43 1k
Q19 UN211H-TX
Q18 UN2213-TX
Q18, 19
B MUTE SW
R22 12k
C51 0.47 50V
C53 0.47 50V
C50 0.018 B
C52 0.018 B
Q22 DTC343TK-146
Q21 DTC343TK-146
Q21, 22
MUTE SW
Q15 DTA143ZK-T147
R41 10k 1/10W
R9 270
R42 47k
Q14 UN2214-TW
Q11 UN2214-TX
C54 0.01 50V F
C73 1000p B
C19 0.01 B
Q13 UN211H-TX
C74 100p SL
C82 0.01μ B
Q11, 13
COM 5V SW
C83 0.01μ B
R47 100
C72 10 50V
RCH
LCH
A GND
AU7.5V
RADIO H
COM 5V
D GND
SENSE/ST
TU SD
B MUTE
DATA3
SOCK/RCLK
DATA4
XLT/CE
S GND
30V
5V
CN1 17P
A
TO
MAIN BOARD
CN803
(See Page 51)
[CONTROL BOARD]
Q502
COM 5V SWITCH
Q502 2SA1564-TP
Q501
OSC
L501 150μH
R527 3.9k
R528 100
Q501 2SC2458TP-GR
C501 6.8 10V
C502 0.033
T501
Q503
SWITCH
Q503 2SC4048-TP
C503 1000 6.3V
EL501
EL
LUMINOUS ELEMENT
CN503 2P
L502 10μH
[RELAY BOARD]
REPEAT/
ENT/MEN
S551
S552
S553
0/
SPACE
9/YZ
8/VWX
7/STU
6/PQR
5/MNO
4/JKL
3/GHI
2/DEF
1/ABC
R551 510
R552 620
R553 820
R554 1k
R555 1.3k
R556 1.8k
R557 3k
R558 4.7k
R559 9.1k
R560 27k
CN552 4P
CN551 2P
CN504 2P
[CONTROL UNIT BOARD]
S501
POWER
S502
FUNCTION
S503
CLOCK
S504
TIMER
S505
SLEEP
S506
STANDBY
R501 430
R502 510
R503 620
R504 820
R505 1k
R506 430
R507 510
R508 620
R509 820
R510 1k
S507
RADIO
BAND
S508
PRESET
S509
PRESET
S510
TUNING
TIME S
S511
TUNING
TIME S
S512
MODE
IC501 GP1U58XB
C582 100 10V
R583 10k
L574 100μ
R532 4.7k
R531 4.7k
R530 4.7k
R529 4.7k
IC501
REMOTE CONTROL
SENSOR
CN501
EL GND
BL CONT
9/10K
RMC
KEY0
KEY1
KEY2
KEY3
E
R/W
RS
DB0
DB1
DB2
DB3
DB4
DB5
DB6
DB7
BU5V
TO
MAIN BOARD
CN802
B
(See Page 51)

Note:

- All capacitors are in µF unless otherwise noted. pF:µµF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- Δ : internal component.
- ☐ : Panel designation.
- ▬ : B+ Line
- ☐ : adjustment for repair.
- Voltages are taken with a VOM (Input impedance 10Ω). Voltage variations may be noted due to normal production tolerances.
  no mark : FM
- Signal path.
  ⇨ : FM
- G : German model
- IT : Italian model



19
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29
30
[CONTROL BOARD]
Q502 COM 5V SWITCH
Q502 2SA1564-TP
Q501 OSC
Q501 2SC2458TP-GR
Q503 SWITCH
Q503 2SC4048-TP
T501
CN503 2P
L502 10µH
L501 150µH
C501 6.8 10V
C502 0.033
C503 1000 6.3V
R527 3.9k
R528 100
ELAY BOARD]
CN552 4P
CN551 2P
CN504 2P
O/ SPACE
IT]
S501 POWER
S502 FUNCTION
S503 CLOCK
S504 TIMER
S505 SLEEP
S506 STANDBY
S507 RADIO BAND
S508 PRESET+
S509 PRESET−
S510 TUNING TIME SET +
S511 TUNING TIME SET −
S512 MODE
S513 DATE
S514 SEARCH+
S515 SEARCH−
S516 DISC NAME
S517 TRACK NAME
S518
S519
S520
S521
S522
S523
S524
S525 EDIT
S526 RESET
S527
AEP,UK,G,IT
D501 BR3368S OPERATION
D502 BR3368S STANDBY
D503 BR3368S REC
D504 BR3368S REC
R523 1.2k
R524 680
R525 390
R526 390
Q581, 582 LED DRIVE
Q581 2SA1048
Q582 2SA1048
R537 100k
R538 100k
JW50 R534 100k
US, Canadian
INPUT SELECT ANALOG ↑ DIGITAL
R535 220k
R536 4.7k
IC501 SBX1610-01 REMOTE CONTROL SENSOR
C562 100 10V
L574 100µ
R583 10k
R529 4.7k
R530 4.7k
R531 4.7k
R532 4.7k
US, Canadian
R533 47k
J351 PHONES
LF501
IC351 AMP TONE CONTROL
IC351 (1/2) NJM2100D
IC351 (2/2) NJM2100D
BASS
TREBLE
RV351 100k (1/2)
RV351 100k (2/2)
RV352 100k (1/2)
RV352 100k (2/2)
C151 1 50V
C251 1 50V
C352 100 10V
C351 100 10V
R351 100
C587 0.01µ
L575 100µH
ND501 LIQUID CRYSTAL DISPLAY
GND
VDD
E
R/W
RS
DB0
DB1
DB2
DB3
DB4
DB5
DB6
DB7
CN505 16P
CN501 20P
EL GND
BL CONT
9/10K
RMC
KEY0
KEY1
KEY2
KEY3
E
R/W
RS
DB0
DB1
DB2
DB3
DB4
DB5
DB6
DB7
BU5V
TO MAIN BOARD (B) CN802
(See Page 51)
CN502 20P
DGND
REC1
INSEL
LCD+B
COM5V
RESET
HPSW
HPR
HPO
HPL
AU7.5V
BT R IN
BT R OUT
GND
BT L OUT
BT L IN
TO MAIN BOARD (C) CN801
(See Page 51)

4-7. PRINTED WIRING BOARDS

• MAIN SECTION 2 (CONTROL, CONTROL UNIT, RELAY, RADIO, ANTENNA TERMINAL and LOOP ANTENNA board)

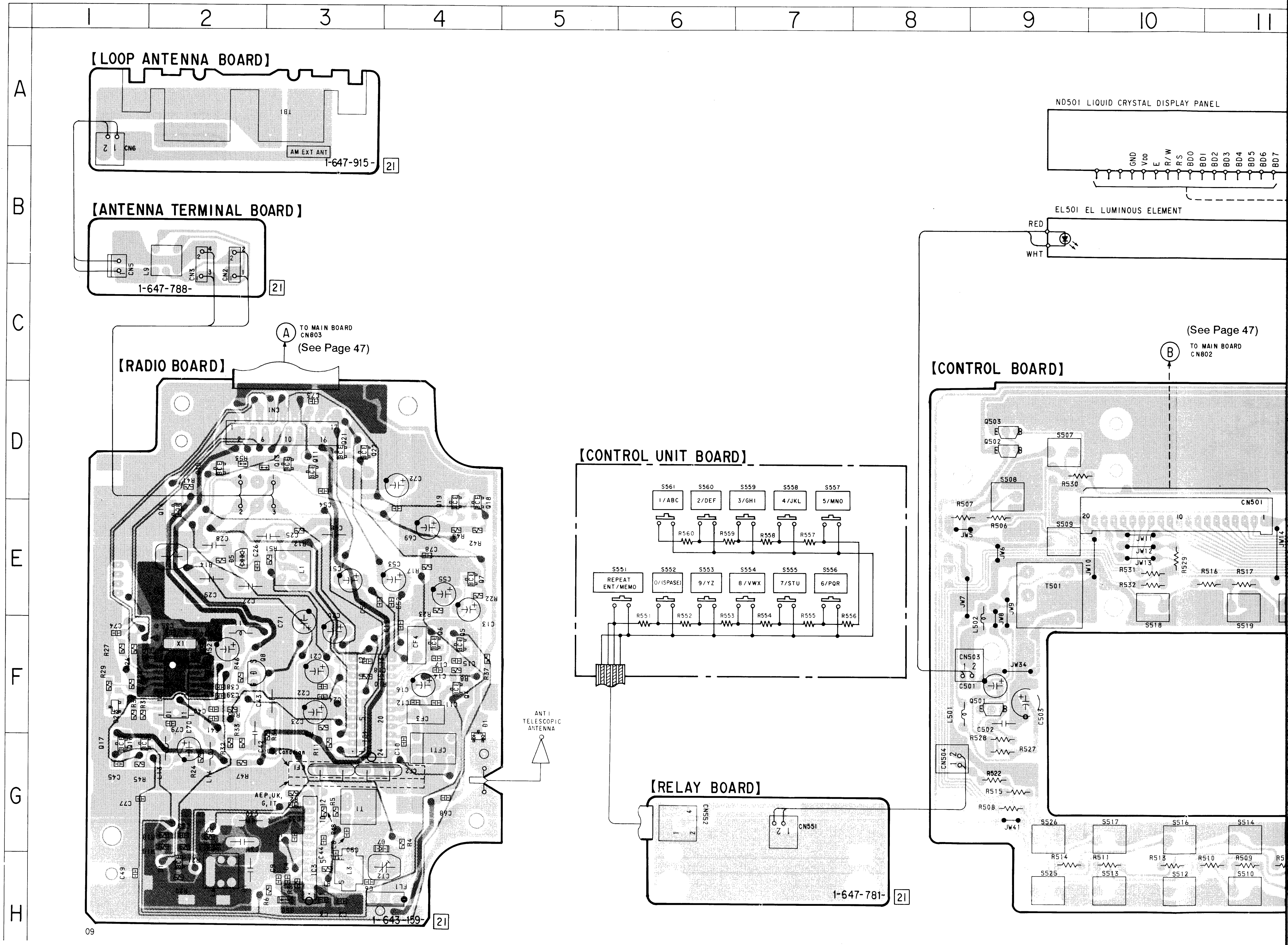
• See page 37 for Circuit Boards Location and see page 91 for Semiconductor Lead Layouts.

• Semiconductor Location

Ref. No.	Location
D1	G-4
D2	F-1
D5	E-2
D7	H-4
D8	H-2
D501	E-14
D502	E-14
D503	E-14
D504	E-13
IC1	F-4
IC2	F-2
IC3	H-3
IC351	F-15
IC501	E-15
Q1	H-2
Q4	F-4
Q5	F-4
Q6	F-4
Q7	E-4
Q8	F-3
Q11	D-3
Q13	D-3
Q14	E-2
Q15	D-2
Q16	G-1
Q17	G-1
Q18	E-4
Q19	E-4
Q21	D-3
Q22	D-3
Q501	F-9
Q502	D-9
Q503	D-9
Q581	E-13
Q582	E-12

Note:

- ░ : Pattern on the side which is seen.
- ▒ : Pattern of the rear side.
- G : German model
- IT : Italian model


1
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3
4
5
6
7
8
9
10
11
A
B
C
D
E
F
G
H
[LOOP ANTENNA BOARD]
1B1
CN6
AM EXT ANT
1-647-915-
21
[ANTENNA TERMINAL BOARD]
CN5
L9
CN3
CN2
1-647-788-
21
TO MAIN BOARD CN803
(See Page 47)
[RADIO BOARD]
X1
AEP,UK, G,IT
1-643-159-
21
09
ANTI TELESCOPIC ANTENNA
[CONTROL UNIT BOARD]
S561 1/ABC
S560 2/DEF
S559 3/GHI
S558 4/JKL
S557 5/MNO
S551 REPEAT ENT/MEMO
S552 0/(SPASE)
S553 9/YZ
S554 8/VWX
S555 7/STU
S556 6/PQR
[RELAY BOARD]
CN552
CN551
1-647-781-
21
ND501 LIQUID CRYSTAL DISPLAY PANEL
GND
VDD
E
R/W
RS
BD0
BD1
BD2
BD3
BD4
BD5
BD6
BD7
EL501 EL LUMINOUS ELEMENT
RED
WHT
(See Page 47)
TO MAIN BOARD CN802
[CONTROL BOARD]
CN501
T501
CN503
CN504
Q501
Q502
Q503
S507
S508
S509
S518
S519
S526
S517
S516
S514
S525
S513
S512
S510
JW34
JW41

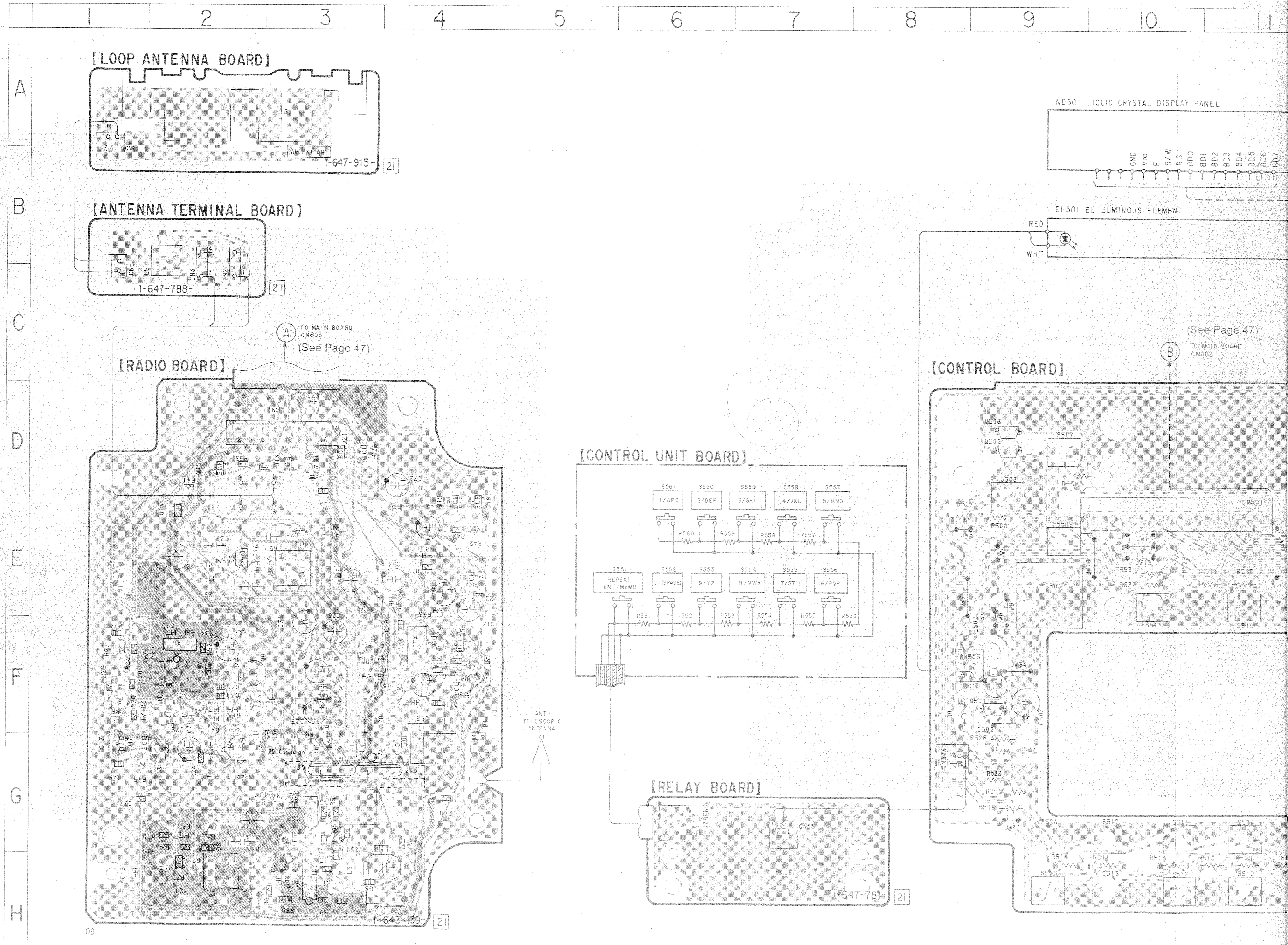
4-7. PRINTED WIRING BOARDS

• MAIN SECTION 2 (CONTROL, CONTROL UNIT, RELAY, RADIO, ANTENNA TERMINAL and LOOP ANTENNA board)

• See page 37 for Circuit Boards Location and see page 91 for Semiconductor Lead Layouts.

• Semiconductor Location

Ref. No.	Location
D1	G-4
D2	F-1
D5	E-2
D7	H-4
D8	H-2
D501	E-14
D502	E-14
D503	E-14
D504	E-13
IC1	F-4
IC2	F-2
IC3	H-3
IC351	F-15
IC501	E-15
Q1	H-2
Q4	F-4
Q5	F-4
Q6	F-4
Q7	E-4
Q8	F-3
Q11	D-3
Q13	D-3
Q14	E-2
Q15	D-2
Q16	G-1
Q17	G-1
Q18	E-4
Q19	E-4
Q21	D-3
Q22	D-3
Q501	F-9
Q502	D-9
Q503	D-9
Q581	E-13
Q582	E-12

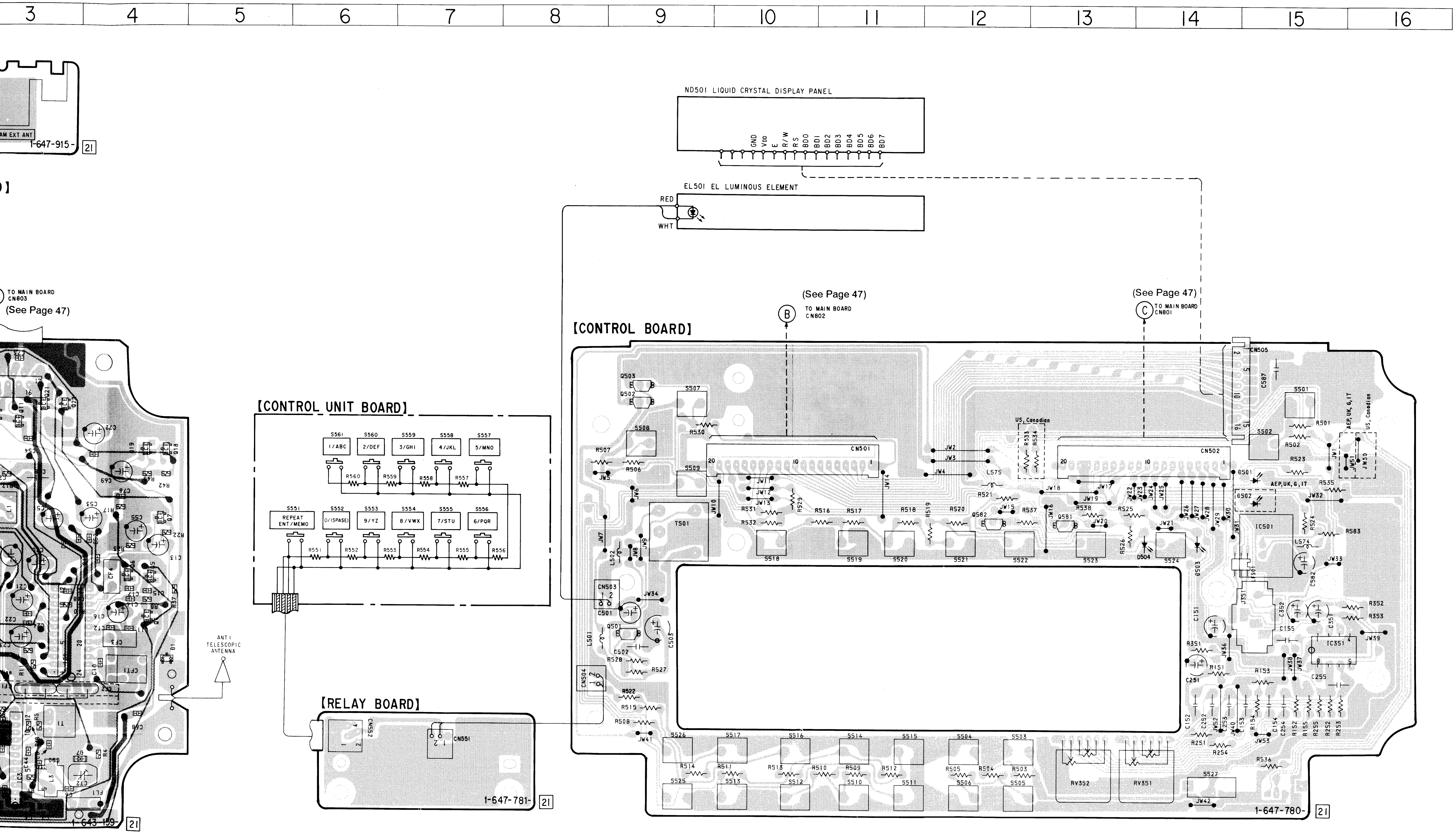


1
2
3
4
5
6
7
8
9
10
11
A
B
C
D
E
F
G
H
[LOOP ANTENNA BOARD]
CN6
AM EXT ANT
1-647-915-
21
[ANTENNA TERMINAL BOARD]
CN5
L9
CN3
CN2
1-647-788-
21
TO MAIN BOARD CN803
(See Page 47)
[RADIO BOARD]
CN1
X1
IC1
IC2
IC3
US, Canadian
AEP, UK, G, IT
CF1
L1
T1
FL1
ANTI TELESCOPIC ANTENNA
1-643-159-
21
[CONTROL UNIT BOARD]
S561 1/ABC
S560 2/DEF
S559 3/GHI
S558 4/JKL
S557 5/MNO
S551 REPEAT ENT/MEMO
S552 0/(SPASE)
S553 9/YZ
S554 8/VWX
S555 7/STU
S556 6/PQR
[RELAY BOARD]
CN552
CN551
1-647-781-
21
ND501 LIQUID CRYSTAL DISPLAY PANEL
GND
VDD
E
R/W
RS
BD0
BD1
BD2
BD3
BD4
BD5
BD6
BD7
EL501 EL LUMINOUS ELEMENT
RED
WHT
(See Page 47)
TO MAIN BOARD CN802
[CONTROL BOARD]
Q503
Q502
Q501
S507
S508
S509
CN501
T501
CN503
CN504
S518
S519
S526
S517
S516
S514
S525
S513
S512
S510

Note:

- ▨ : Pattern on the side which is seen.
- ░ : Pattern of the rear side.
- G : German model
- IT: Italian model

d LOOP ANTENNA board)
ts.


3
4
5
6
7
8
9
10
11
12
13
14
15
16
AM EXT ANT
1-647-915-
21
TO MAIN BOARD CN803
(See Page 47)
1-643-159-
21
ANTI TELESCOPIC ANTENNA
ND501 LIQUID CRYSTAL DISPLAY PANEL
GND
VDD
E
R/W
RS
BD0
BD1
BD2
BD3
BD4
BD5
BD6
BD7
EL501 EL LUMINOUS ELEMENT
RED
WHT
(See Page 47)
B
TO MAIN BOARD CN802
(See Page 47)
C
TO MAIN BOARD CN801
【CONTROL BOARD】
【CONTROL UNIT BOARD】
S561 1/ABC
S560 2/DEF
S559 3/GHI
S558 4/JKL
S557 5/MNO
S551 REPEAT ENT/MEMO
S552 0/(SPASE)
S553 9/YZ
S554 8/VWX
S555 7/STU
S556 6/PQR
【RELAY BOARD】
CN552
CN551
1-647-781-
21
CN501
CN502
CN503
CN504
CN505
T501
IC501
IC351
US, Canadian
AEP, UK, G, IT
RV352
RV351
1-647-780-
21

4-8. PRINTED WIRING BOARDS

• MAIN SECTION 3 (IO, FILTER board)

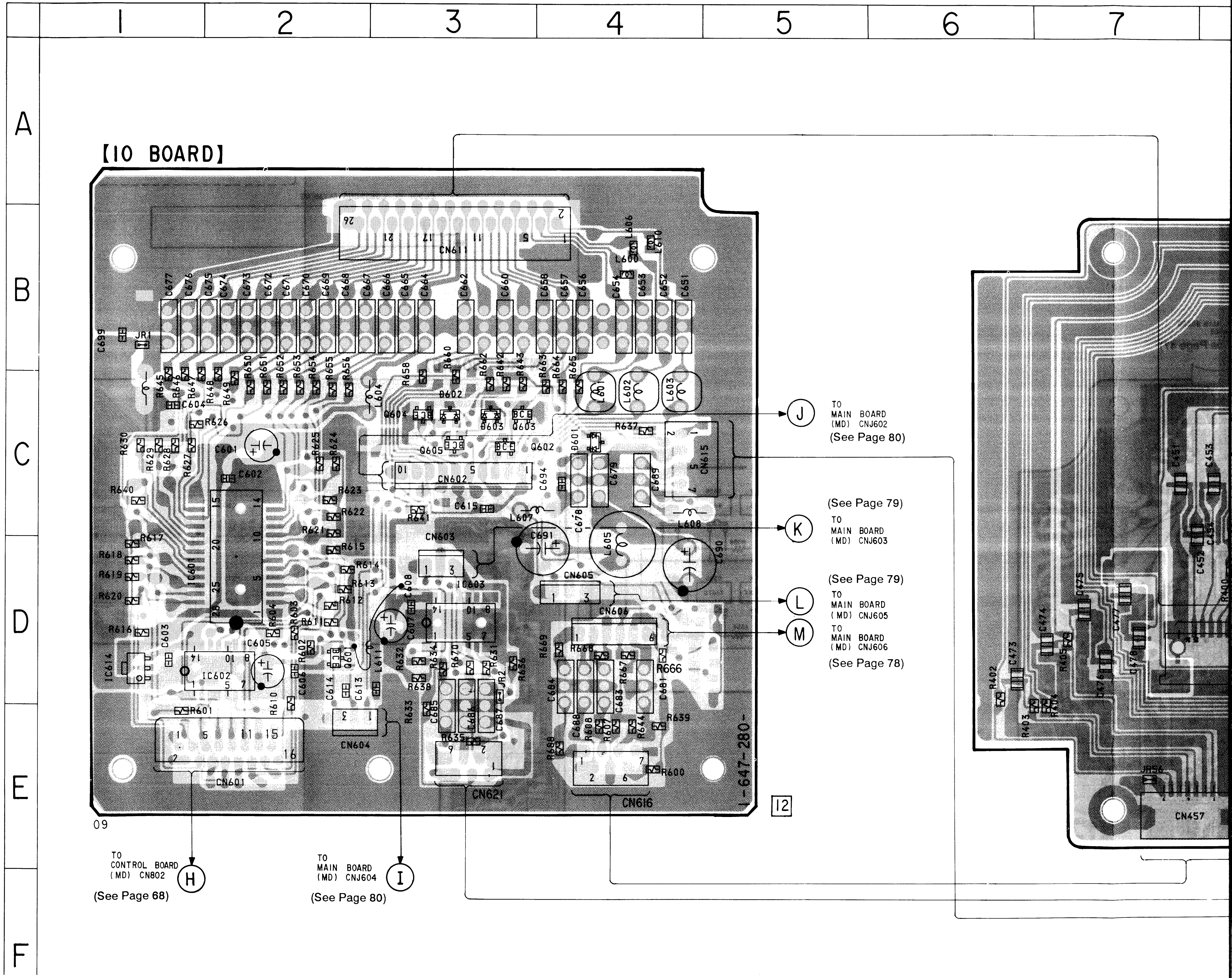
• See page 37 for Circuit Boards Location and see page 91 for Semiconductor Lead Layouts.

• Semiconductor Location

Ref. No.	Location
D401	C-9
D601	C-4
D602	C-3
D603	C-3
IC601	D-2
IC602	D-2
IC603	D-3
IC614	D-1
Q405	D-9
Q601	D-2
Q602	C-3
Q603	C-3
Q604	C-3
Q605	C-3

Note:

- ░ : Pattern on the side which is seen.
- ▒ : Pattern of the rear side.



1
2
3
4
5
6
7
A
B
C
D
E
F
【IO BOARD】
CN611
CN602
CN603
CN604
CN605
CN606
CN601
CN615
CN616
CN621
IC601
IC602
IC603
IC614
Q601
Q602
Q603
Q604
Q605
D601
D602
D603
1-647-280-
12
09
CN457
TO MAIN BOARD (MD) CNJ602
(See Page 80)
(See Page 79)
TO MAIN BOARD (MD) CNJ603
(See Page 79)
TO MAIN BOARD (MD) CNJ605
TO MAIN BOARD (MD) CNJ606
(See Page 78)
TO CONTROL BOARD (MD) CN802
(See Page 68)
TO MAIN BOARD (MD) CNJ604
(See Page 80)
J
K
L
M
H
I

4-8. PRINTED WIRING BOARDS

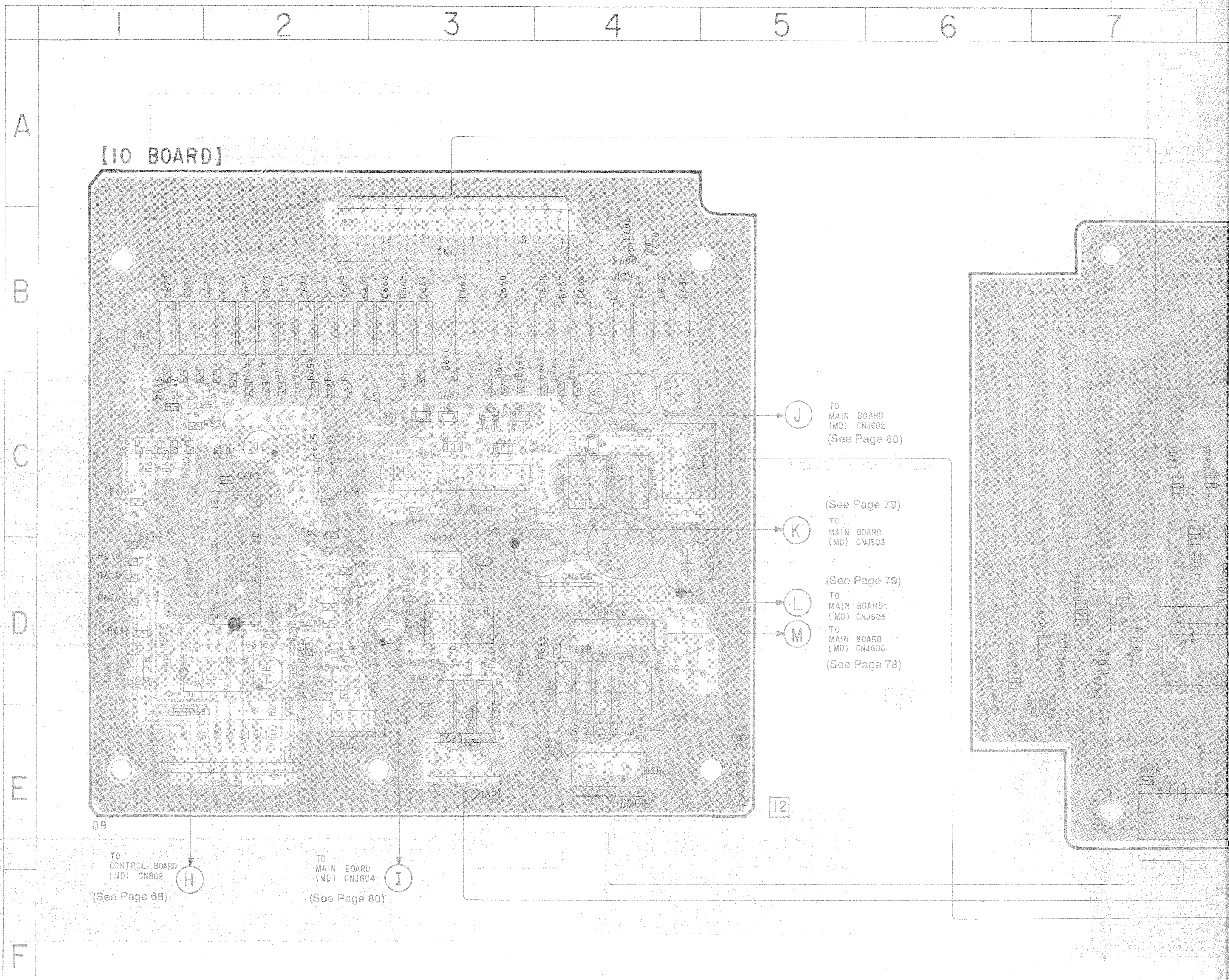
- MAIN SECTION 3 (IO, FILTER board)
- See page 37 for Circuit Boards Location and see page 91 for Semiconductor Lead Layouts.

• Semiconductor Location

Ref. No.	Location
D401	C-9
D601	C-4
D602	C-3
D603	C-3
IC601	D-2
IC602	D-2
IC603	D-3
IC614	D-1
Q405	D-9
Q601	D-2
Q602	C-3
Q603	C-3
Q604	C-3
Q605	C-3

Note:

- ▨ : Pattern on the side which is seen.
- ▨ : Pattern of the rear side.

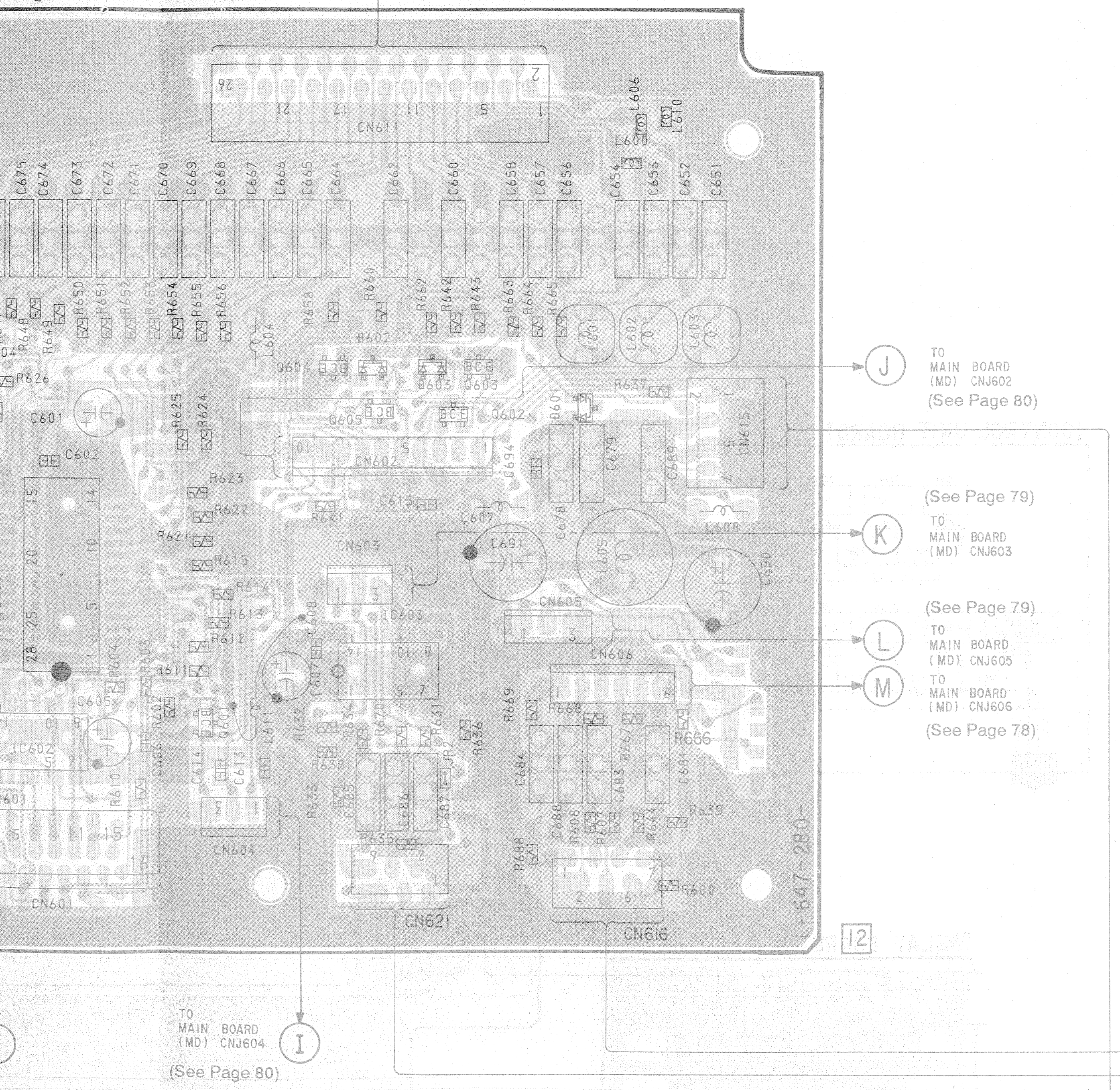


1
2
3
4
5
6
7
A
B
C
D
E
F
【IO BOARD】
CN611
CN602
CN603
CN605
CN606
CN615
CN601
CN604
CN621
CN616
IC601
IC602
IC603
IC614
Q601
Q602
Q603
Q604
Q605
D601
D602
D603
1-647-280-
12
09
TO MAIN BOARD (MD) CNJ602
(See Page 80)
J
(See Page 79)
TO MAIN BOARD (MD) CNJ603
K
(See Page 79)
TO MAIN BOARD (MD) CNJ605
L
TO MAIN BOARD (MD) CNJ606
M
(See Page 78)
TO CONTROL BOARD (MD) CN802
H
(See Page 68)
TO MAIN BOARD (MD) CNJ604
I
(See Page 80)
CN457
JR56

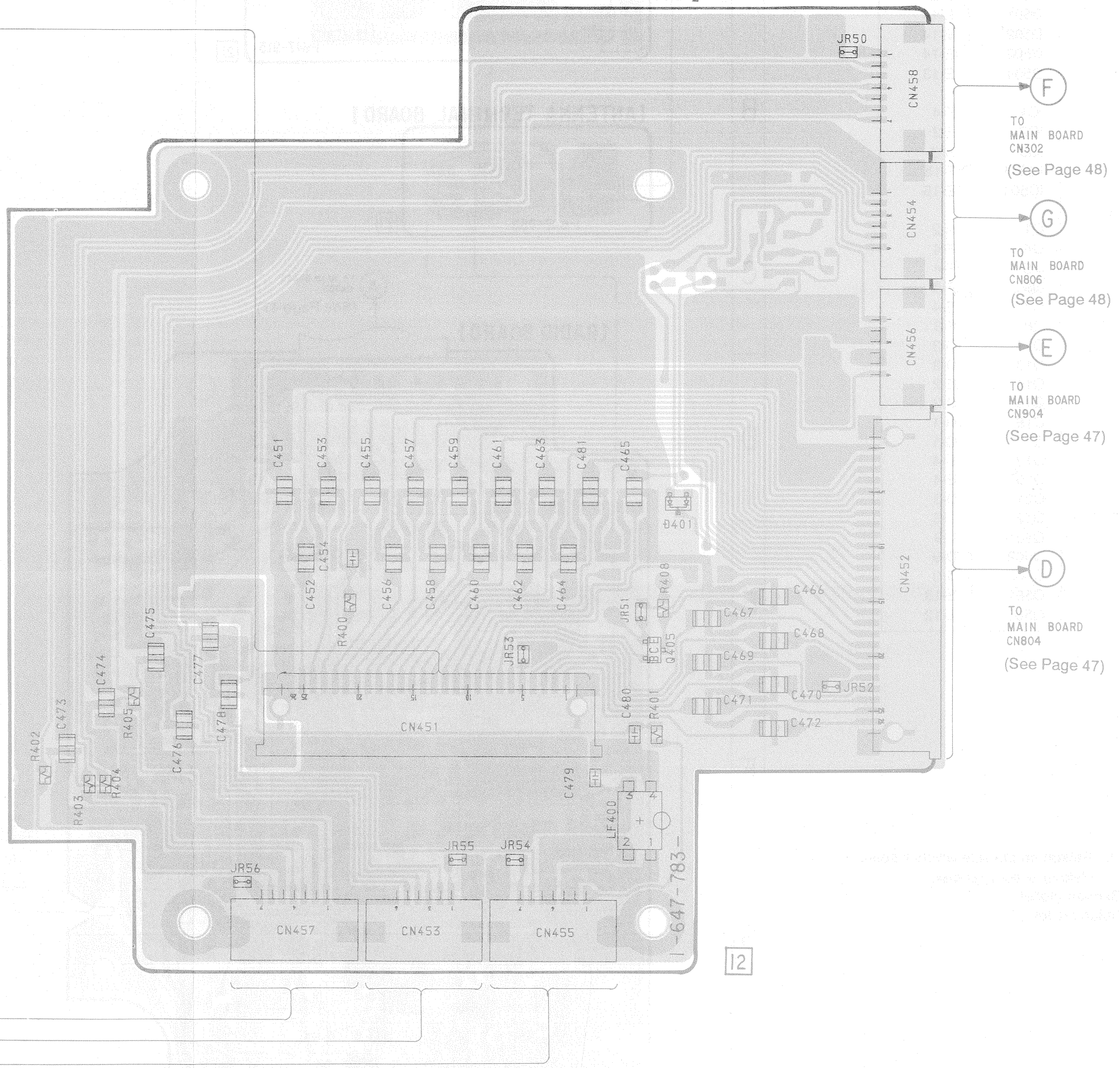
ayouts.

2	3	4	5	6	7	8	9	10	11

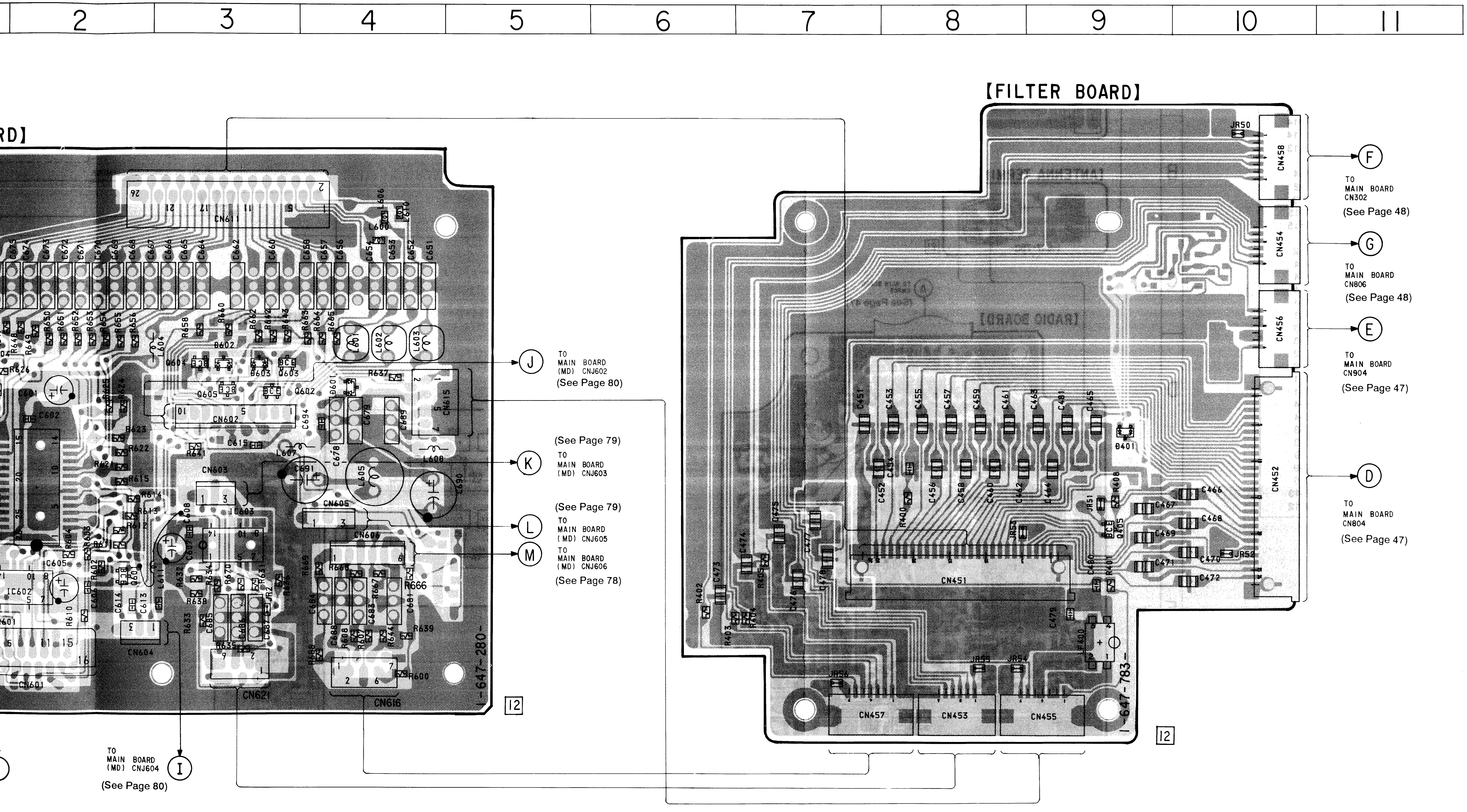
RD]


CN611
CN602
CN603
CN604
CN605
CN606
CN615
CN616
CN621
CN601
IC602
IC603
Q601
Q602
Q603
Q604
Q605
D601
D602
D603
L601
L602
L603
L604
L605
L606
L607
L608
L609
L610
L611
C601
C602
C690
C691
R666
R600
1-647-280-
12
TO MAIN BOARD (MD) CNJ602 (See Page 80)
J
(See Page 79)
TO MAIN BOARD (MD) CNJ603
K
(See Page 79)
TO MAIN BOARD (MD) CNJ605
L
TO MAIN BOARD (MD) CNJ606 (See Page 78)
M
TO MAIN BOARD (MD) CNJ604 (See Page 80)
I

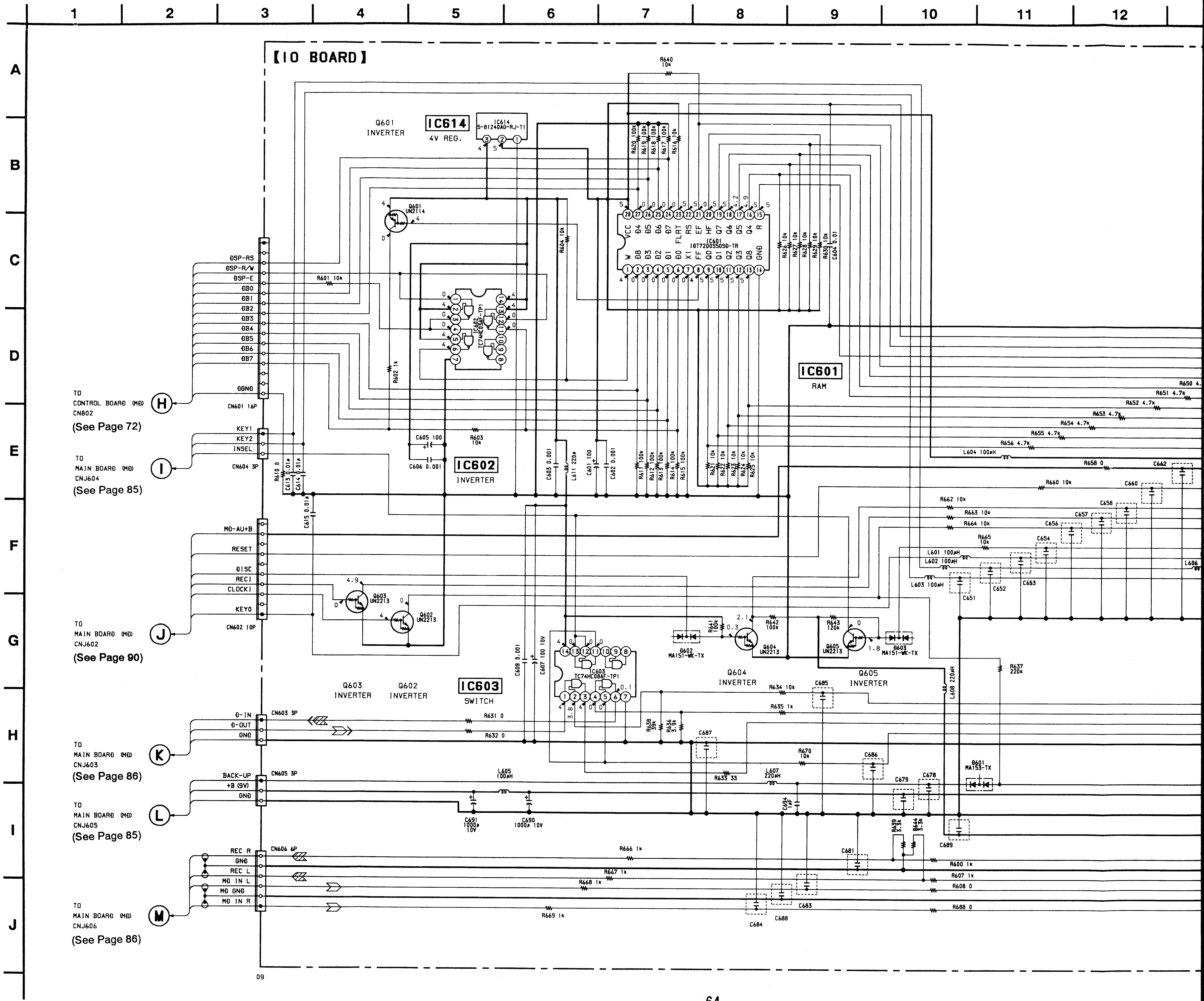
【FILTER BOARD】


JR50
CN458
F
TO MAIN BOARD CN302 (See Page 48)
CN454
G
TO MAIN BOARD CN806 (See Page 48)
CN456
E
TO MAIN BOARD CN904 (See Page 47)
CN452
D
TO MAIN BOARD CN804 (See Page 47)
CN451
CN457
CN453
CN455
D401
Q405
LF400
JR51
JR52
JR53
JR54
JR55
JR56
C451
C453
C455
C457
C459
C461
C463
C481
C465
C466
C467
C468
C469
C470
C471
C472
C473
C474
C475
C476
C477
C478
C479
C480
R400
R401
R402
R403
R404
R405
R408
1-647-783-
12

ayouts.


2
3
4
5
6
7
8
9
10
11
RD]
[FILTER BOARD]
TO MAIN BOARD CN302 (See Page 48)
TO MAIN BOARD CN806 (See Page 48)
TO MAIN BOARD CN904 (See Page 47)
TO MAIN BOARD CN804 (See Page 47)
TO MAIN BOARD (MD) CNJ602 (See Page 80)
(See Page 79) TO MAIN BOARD (MD) CNJ603
(See Page 79) TO MAIN BOARD (MD) CNJ605
TO MAIN BOARD (MD) CNJ606 (See Page 78)
TO MAIN BOARD (MD) CNJ604 (See Page 80)
F
G
E
D
J
K
L
M
I
CN458
CN454
CN456
CN452
CN451
CN457
CN453
CN455
CN611
CN602
CN603
CN604
CN605
CN606
CN615
CN616
CN621
CN601
IC602
IC603
1-647-280-
1-647-783-
12
12

4-9. SCHEMATIC DIAGRAMS
• MAIN SECTION 3 (IO, FILTER board)



1
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4
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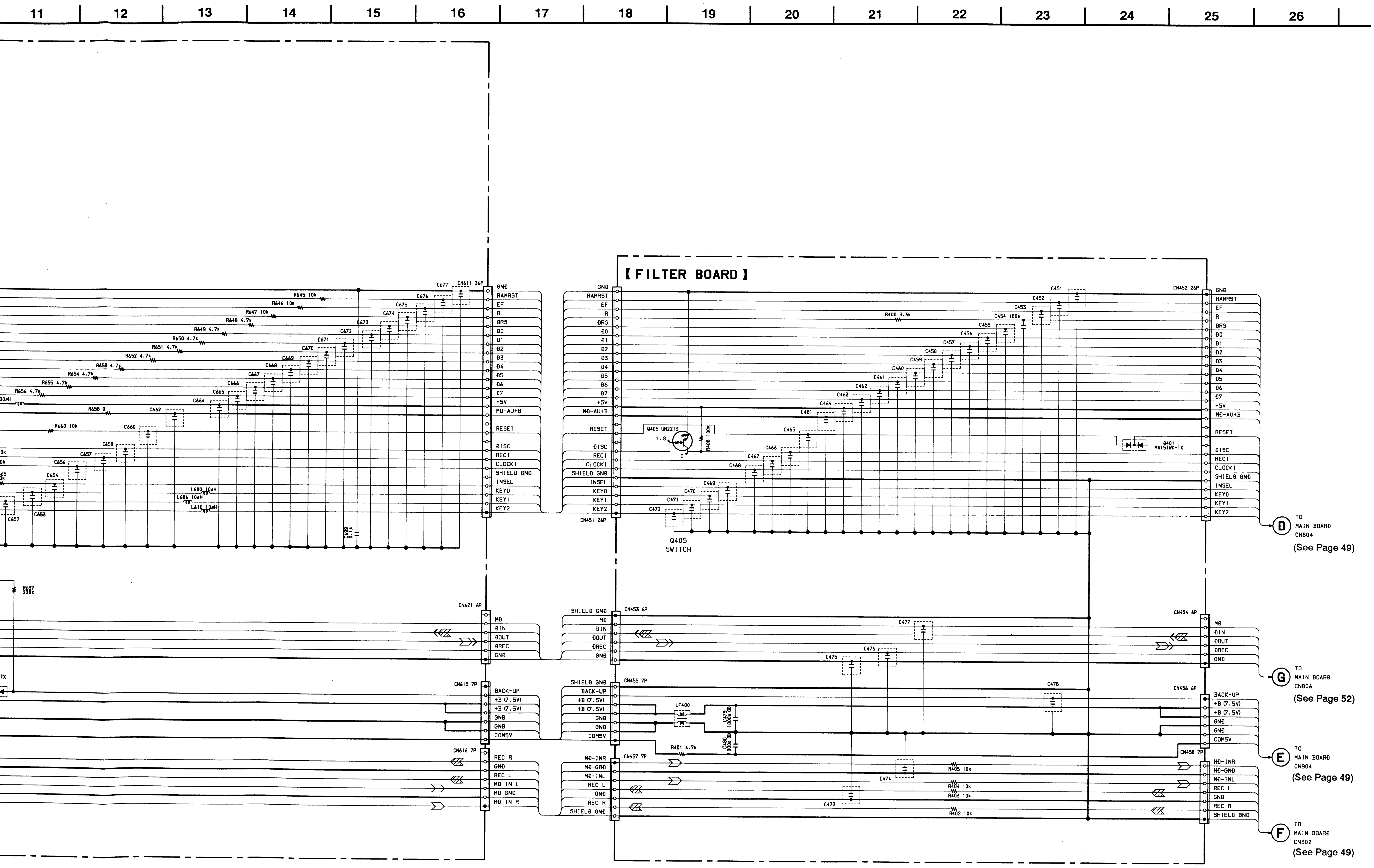
8
9
10
11
12
A
B
C
D
E
F
G
H
I
J
【IO BOARD】
IC614
4V REG.
IC614 S-81240AG-RJ-T1
Q601 INVERTER
Q601 UN2114
IC601 RAM
IC601 IDT7200S50SO-TR
IC602 INVERTER
IC602 TC74HC04AF-TP1
IC603 SWITCH
IC603 TC74HC08AF-TP1
Q603 INVERTER
Q602 INVERTER
Q603 UN2213
Q602 UN2213
Q604 INVERTER
Q604 UN2213
Q605 INVERTER
Q605 UN2213
D602 MA151-WK-TX
D603 MA151-WK-TX
D601 MA153-TX
TO CONTROL BOARD (MD) CN802
(See Page 72)
CN601 16P
DSP-RS
DSP-R/W
DSP-E
DB0
DB1
DB2
DB3
DB4
DB5
DB6
DB7
DGND
TO MAIN BOARD (MD) CNJ604
(See Page 85)
CN604 3P
KEY1
KEY2
INSEL
TO MAIN BOARD (MD) CNJ602
(See Page 90)
CN602 10P
MD-AU+B
RESET
DISC
RECI
CLOCKI
KEYO
TO MAIN BOARD (MD) CNJ603
(See Page 86)
CN603 3P
D-IN
D-OUT
GND
TO MAIN BOARD (MD) CNJ605
(See Page 85)
CN605 3P
BACK-UP
+B (9V)
GND
TO MAIN BOARD (MD) CNJ606
(See Page 86)
CN606 6P
REC R
GND
REC L
MD IN L
MD GND
MD IN R
R640 10k
R601 10k
R602 1k
R603 10k
R604 10k
R610 0
R631 0
R632 0
R633 33
R634 10k
R635 1k
R637 220k
R638 39k
R641 10k
R642 100k
R643 120k
R666 1k
R667 1k
R668 1k
R669 1k
R670 10k
R600 1k
R607 1k
R608 0
R688 0
R650 4.7k
R651 4.7k
R652 4.7k
R653 4.7k
R654 4.7k
R655 4.7k
R656 4.7k
R658 0
R660 10k
R662 10k
R663 10k
R664 10k
R665 10k
C605 100
C606 0.001
C613 0.01
C614 0.01
C615 0.01
C603 0.001
C601 100
C602 0.001
C604 0.01
C607 100 10V
C608 0.001
C690 1000μ 10V
C691 1000μ 10V
L605 100μH
L607 220μH
L608 220μH
L611 220μ
L601 100μH
L602 100μH
L603 100μH
L604 100μH
09

Note:

- All capacitors are in μF unless otherwise noted. pF:μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- ▬ : B+ Line
- Voltages are taken with a VOM (Input impedance 10Ω). Voltage variations may be noted due to normal production tolerances.
  no mark : FM
- Signal path.
  ⊳ : PB (ANALOG OUT) ⊳⊳ : PB (DIGITAL OUT)
  ⊲ : REC (ANALOG IN) ⊲⊲ : REC (DIGITAL IN)


11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
【FILTER BOARD】
CN611 26P
CN451 26P
CN452 26P
GND
RAMRST
EF
R
DRS
D0
D1
D2
D3
D4
D5
D6
D7
+5V
MD-AU+B
RESET
DISC
RECI
CLOCKI
SHIELD GND
INSEL
KEY0
KEY1
KEY2
Q405 UN2213
R408 100k
R400 3.3k
C454 100p
D401 MA151WK-TX
Q405
SWITCH
CN621 6P
CN453 6P
CN454 6P
MD
DIN
DOUT
DREC
CN615 7P
CN455 7P
CN456 6P
BACK-UP
+B (7.5V)
COM5V
LF400
R401 4.7k
CN616 7P
CN457 7P
CN458 7P
REC R
REC L
MD IN L
MD GND
MD IN R
MD-INR
MD-GND
MD-INL
R405 10k
R404 10k
R403 10k
R402 10k
R637 220k
R645 10k
R646 10k
R647 10k
R648 4.7k
R649 4.7k
R650 4.7k
R651 4.7k
R652 4.7k
R653 4.7k
R654 4.7k
R655 4.7k
R656 4.7k
R658 0
R660 10k
L600 10μH
L606 10μH
L610 10μH
D
TO
MAIN BOARD
CN804
(See Page 49)
G
TO
MAIN BOARD
CN806
(See Page 52)
E
TO
MAIN BOARD
CN904
(See Page 49)
F
TO
MAIN BOARD
CN302
(See Page 49)

4-10. PRINTED WIRING BOARDS

• MD SECTION 1 (CONTROL, CLV, POWER (A), POWER (B) and POWER (C) board)

• See page 37 for Circuit Boards Location and see page 91 for Semiconductor Lead Layouts.

• Semiconductor Location

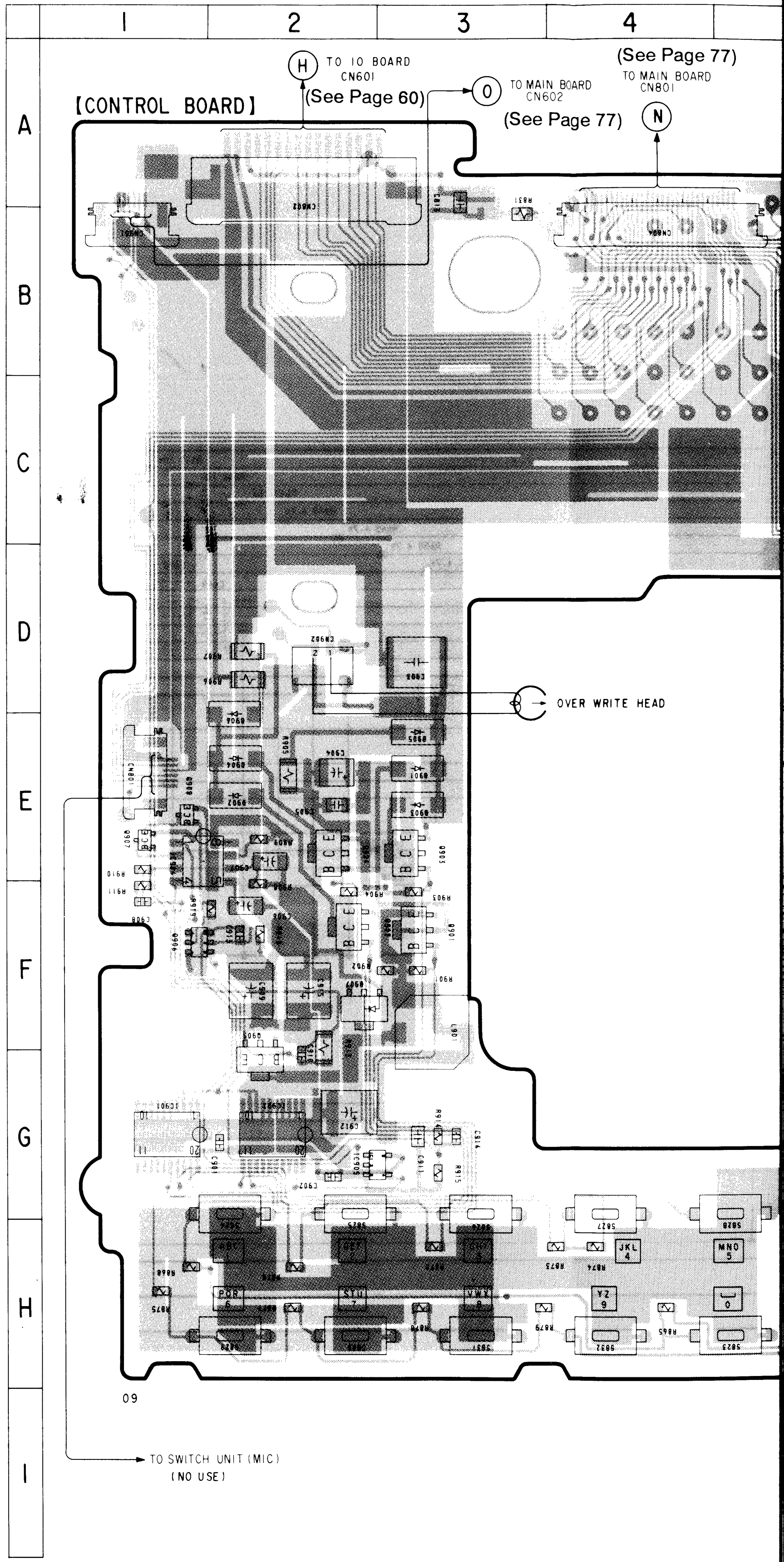
Ref. No.	Location	Ref. No.	Location
D402	G-15	Q406	E-11
D404	E-11	Q407	F-12
D405	G-15	Q408	E-12
D407	F-16	Q410	G-13
D410	G-12	Q411	G-15
D411	E-12	Q412	G-13
D412	E-12	Q413	G-13
D413	E-12	Q414	E-13
D414	E-12	Q415	E-13
D415	I-15	Q416	G-15
D416	H-11	Q420	G-17
D417	G-12	Q421	I-13
D418	G-15	Q422	I-14
D419	G-16	Q423	H-12
D901	E-3	Q426	H-16
D902	E-2	Q428	G-16
D903	E-3	Q429	G-11
D904	E-2	Q430	G-16
D905	E-3	Q431	I-12
D906	D-2	Q432	I-16
D907	F-2	Q433	I-13
		Q434	I-14
IC401	G-16	Q435	I-15
IC402	I-15	Q436	G-12
IC403	E-12	Q512	G-6
IC701	C-9	Q901	F-3
IC901	G-1	Q902	F-2
IC902	G-2	Q903	E-3
IC904	E-1	Q904	E-2
IC905	G-3	Q905	G-2
		Q906	F-1
Q403	F-12	Q907	E-1
Q404	E-12	Q908	E-1
Q405	F-11		

Note:

- ▨ : Pattern on the side which is seen.
- ░ : Pattern of the rear side.

Caution:

Conductor side: (Side B)	Parts on the Conductor side seen from the are indicated.
Component side: (Side A)	Parts on the Component side seen from the Component side are indicated.

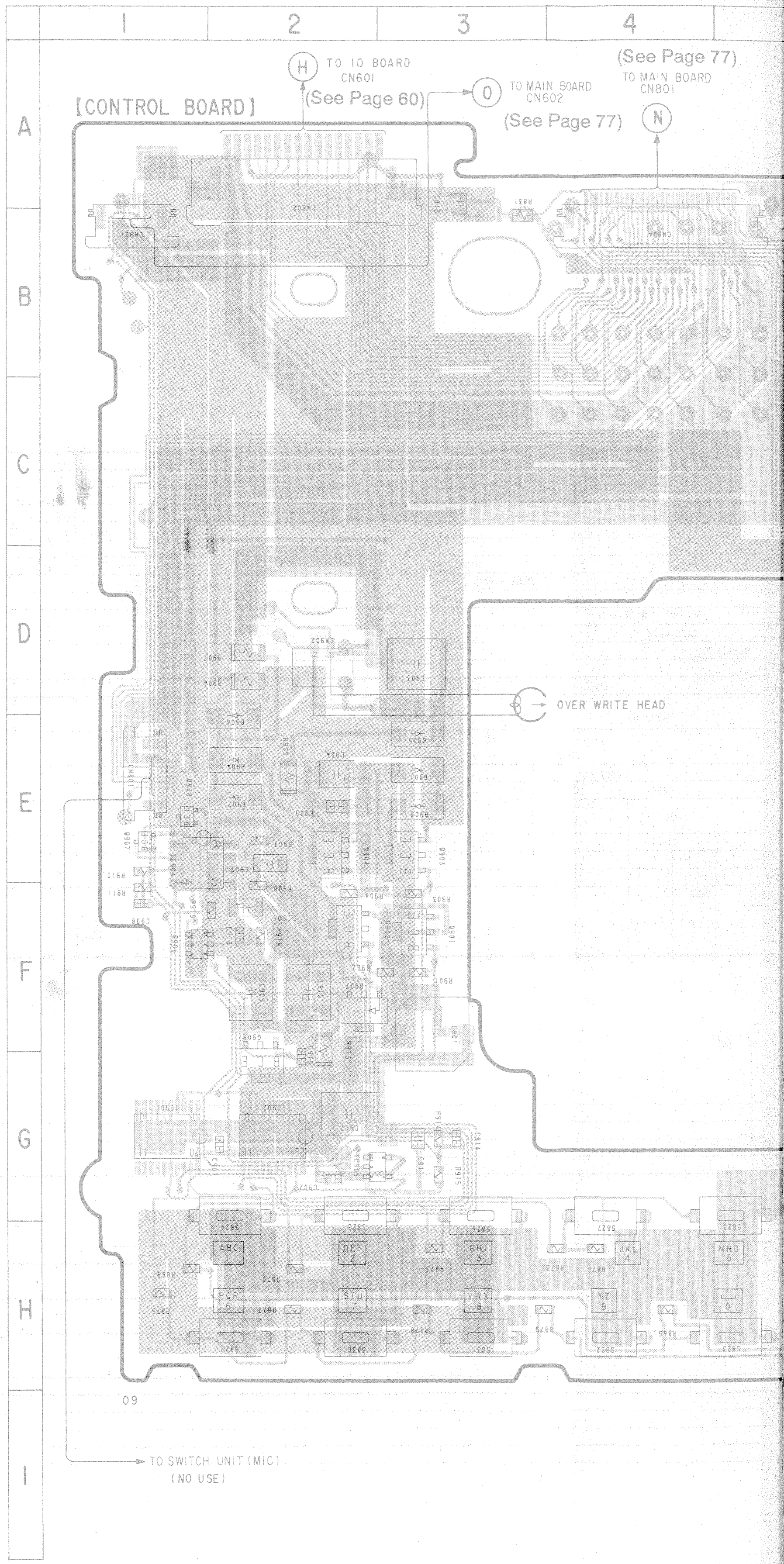

1
2
3
4
A
B
C
D
E
F
G
H
I
[CONTROL BOARD]
H
TO IO BOARD CN601
(See Page 60)
O
TO MAIN BOARD CN602
(See Page 77)
(See Page 77)
TO MAIN BOARD CN801
N
OVER WRITE HEAD
TO SWITCH UNIT (MIC) (NO USE)
JKL 4
MNO 5
YZ 9
0
09

4-10. PRINTED WIRING BOARDS

- **MD SECTION 1 (CONTROL, CLV, POWER (A), POWER (B) and POWER (C) board)**
- **See page 37 for Circuit Boards Location and see page 91 for Semiconductor Lead Layouts.**

- Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D402	G-15	Q406	E-11
D404	E-11	Q407	F-12
D405	G-15	Q408	E-12
D407	F-16	Q410	G-13
D410	G-12	Q411	G-15
D411	E-12	Q412	G-13
D412	E-12	Q413	G-13
D413	E-12	Q414	E-13
D414	E-12	Q415	E-13
D415	I-15	Q416	G-15
D416	H-11	Q420	G-17
D417	G-12	Q421	I-13
D418	G-15	Q422	I-14
D419	G-16	Q423	H-12
D901	E-3	Q426	H-16
D902	E-2	Q428	G-16
D903	E-3	Q429	G-11
D904	E-2	Q430	G-16
D905	E-3	Q431	I-12
D906	D-2	Q432	I-16
D907	F-2	Q433	I-13
		Q434	I-14
IC401	G-16	Q435	I-15
IC402	I-15	Q436	G-12
IC403	E-12	Q512	G-6
IC701	C-9	Q901	F-3
IC901	G-1	Q902	F-2
IC902	G-2	Q903	E-3
IC904	E-1	Q904	E-2
IC905	G-3	Q905	G-2
		Q906	F-1
Q403	F-12	Q907	E-1
Q404	E-12	Q908	E-1
Q405	F-11		


1
2
3
4
A
B
C
D
E
F
G
H
I
H TO IO BOARD CN601
(See Page 60)
O TO MAIN BOARD CN602
(See Page 77)
(See Page 77)
TO MAIN BOARD CN801
N
[CONTROL BOARD]
OVER WRITE HEAD
ABC
DEF
GHI
JKL
MNO
PQR
STU
VWX
YZ
09
TO SWITCH UNIT (MIC)
(NO USE)

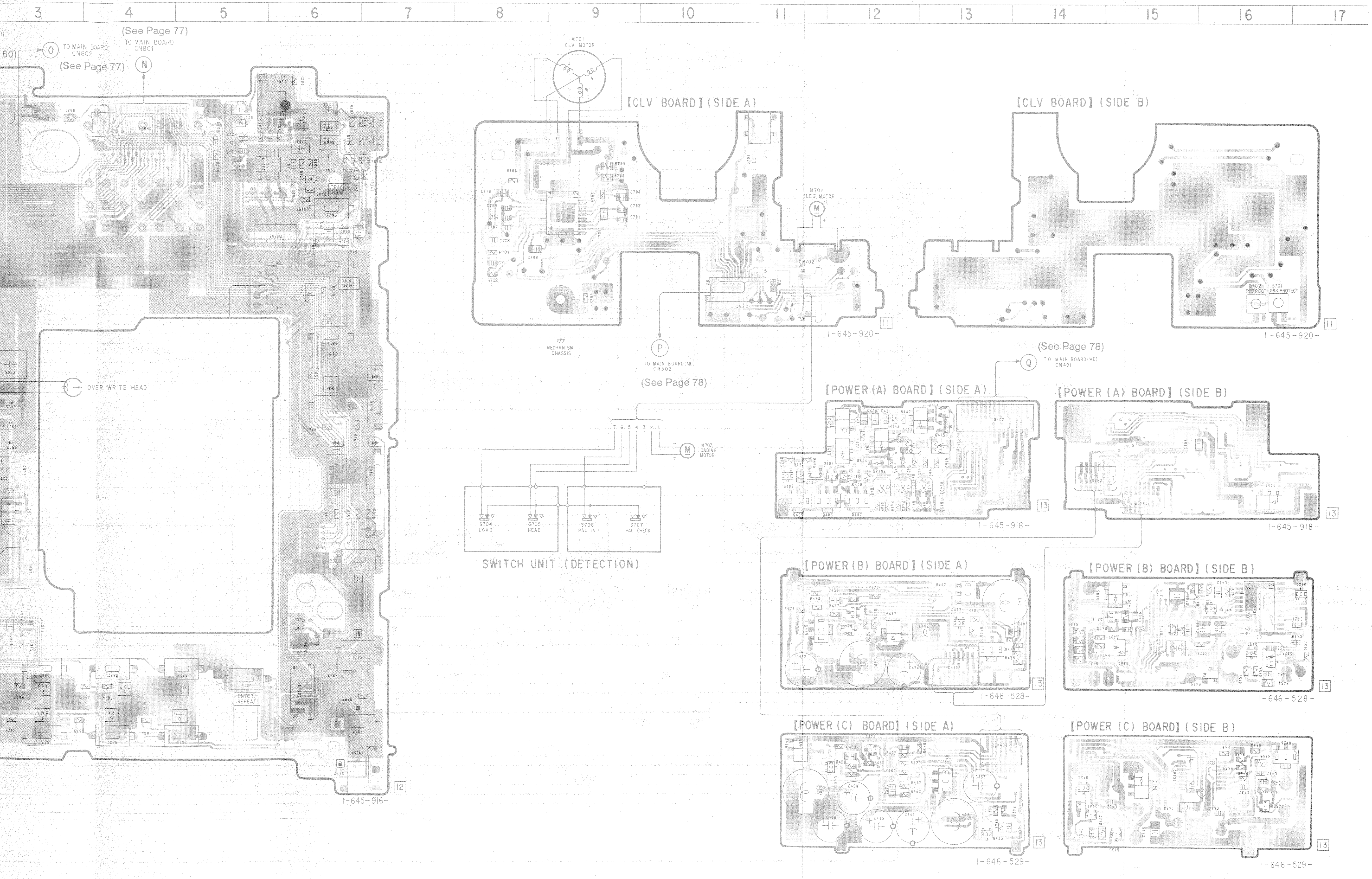
Note:

- ░ : Pattern on the side which is seen.
- ░ : Pattern of the rear side.

Caution:

Conductor side: (Side B)	Parts on the Conductor side seen from the are indicated.
Component side: (Side A)	Parts on the Component side seen from the Component side are indicated.

ayouts.



3
4
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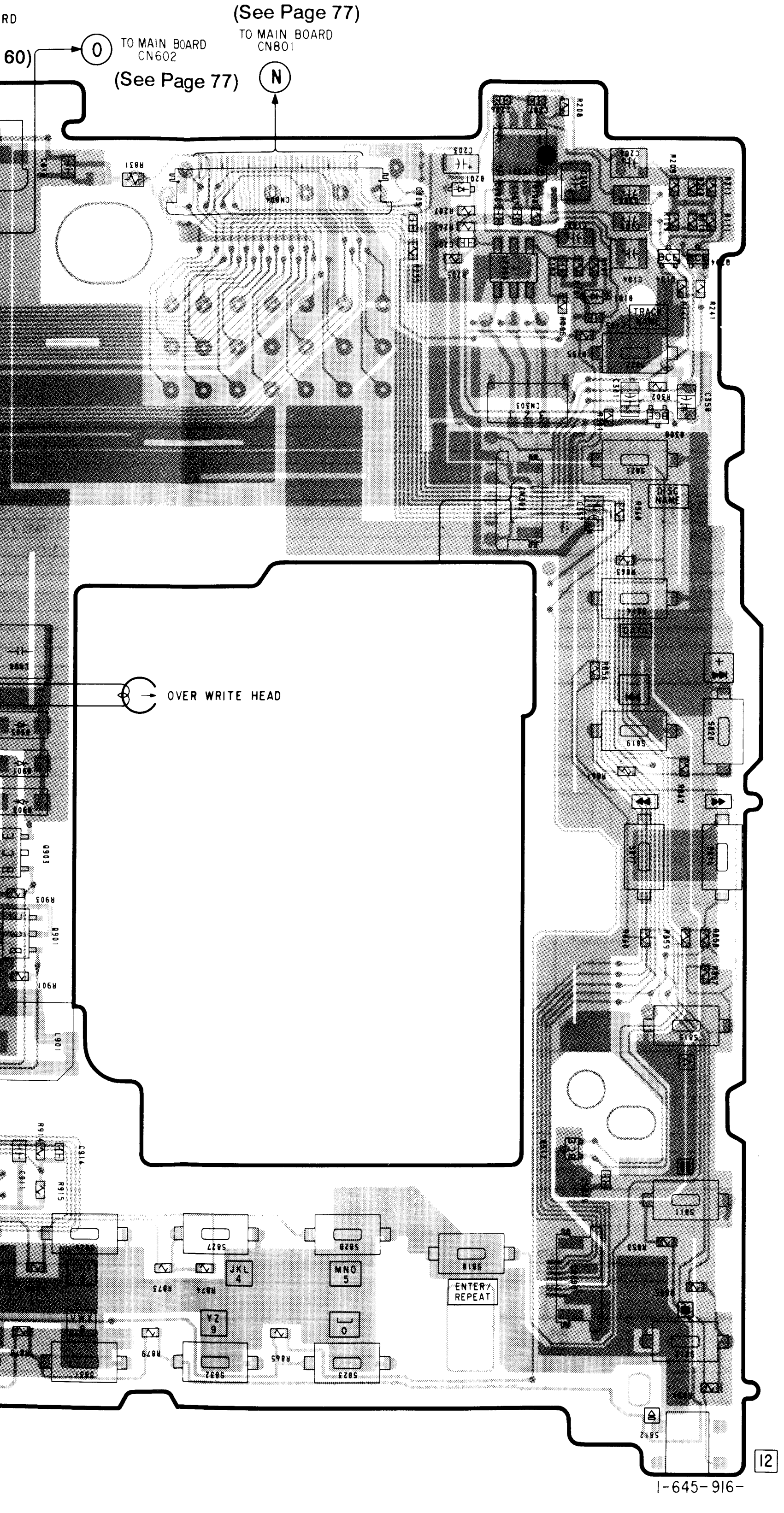
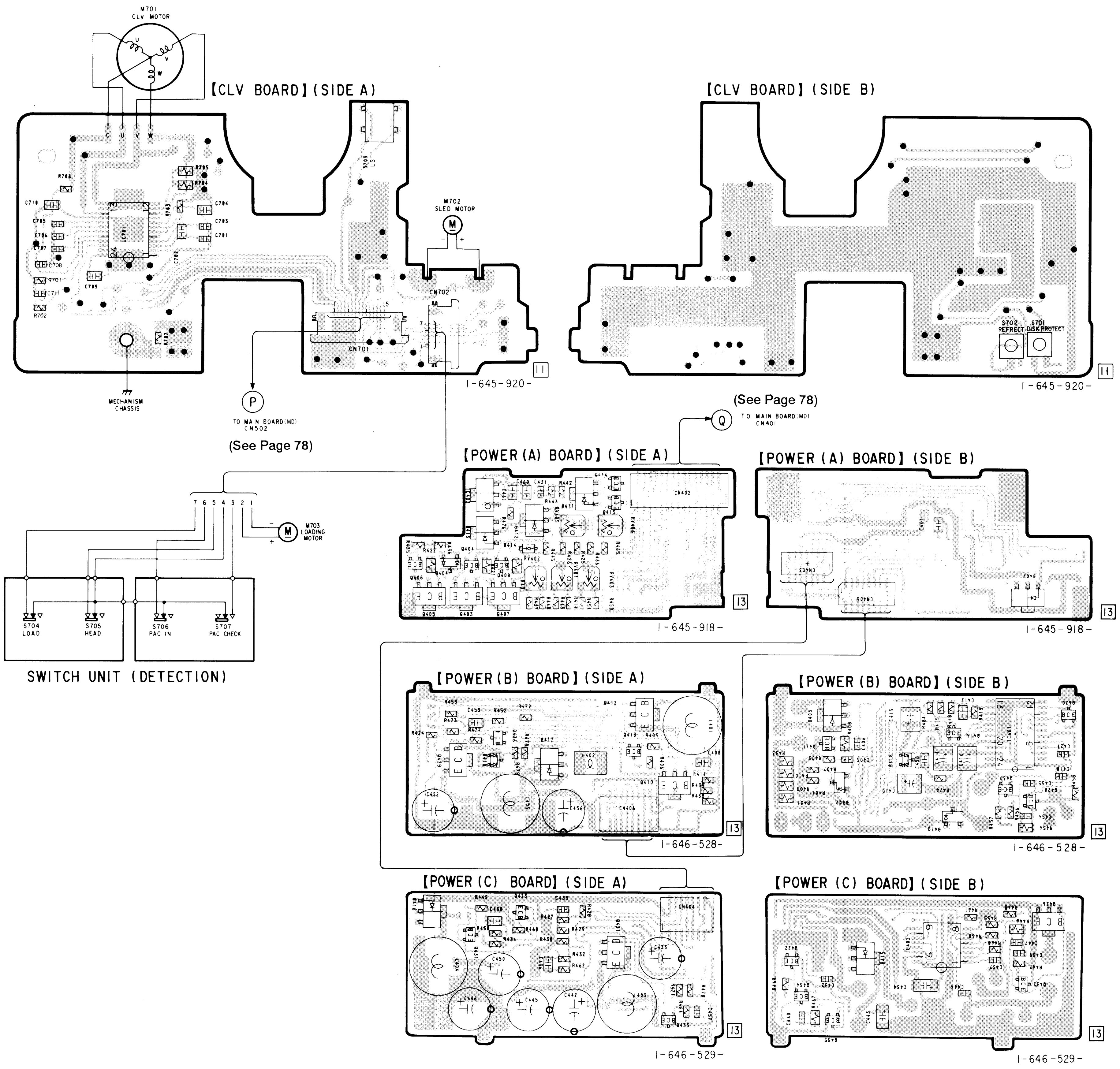
6
7
8
9
10
11
12
13
14
15
16
17
60)
O
TO MAIN BOARD CN602
(See Page 77)
(See Page 77)
TO MAIN BOARD CN801
N
OVER WRITE HEAD
TRACK NAME
DISC NAME
DATA
GHI 3
JKL 4
MNO 5
PRS 7
TUV 8
WXY 9
QZ 0
ENTER/REPEAT
12
1-645-916-
M701 CLV MOTOR
[CLV BOARD] (SIDE A)
M702 SLED MOTOR
CN702
CN701
MECHANISM CHASSIS
P
TO MAIN BOARD(MD) CN502
(See Page 78)
11
1-645-920-
[CLV BOARD] (SIDE B)
S702 REFRECT
S701 DISK PROTECT
11
1-645-920-
(See Page 78)
Q
TO MAIN BOARD(MD) CN401
7 6 5 4 3 2 1
M703 LOADING MOTOR
S704 LOAD
S705 HEAD
S706 PAC IN
S707 PAC CHECK
SWITCH UNIT (DETECTION)
[POWER (A) BOARD] (SIDE A)
13
1-645-918-
[POWER (A) BOARD] (SIDE B)
13
1-645-918-
[POWER (B) BOARD] (SIDE A)
13
1-646-528-
[POWER (B) BOARD] (SIDE B)
13
1-646-528-
[POWER (C) BOARD] (SIDE A)
13
1-646-529-
[POWER (C) BOARD] (SIDE B)
13
1-646-529-

ayouts.

3 4 5 6 7 8 9 10 11 12 13 14 15 16 17



TO MAIN BOARD CN602
60)
(O)
(See Page 77)
TO MAIN BOARD CN801
(See Page 77)
(N)
OVER WRITE HEAD
DISC NAME
TRACK
ENTER/REPEAT
JKL 4
MNO 5
XYZ 9
12
1-645-916-

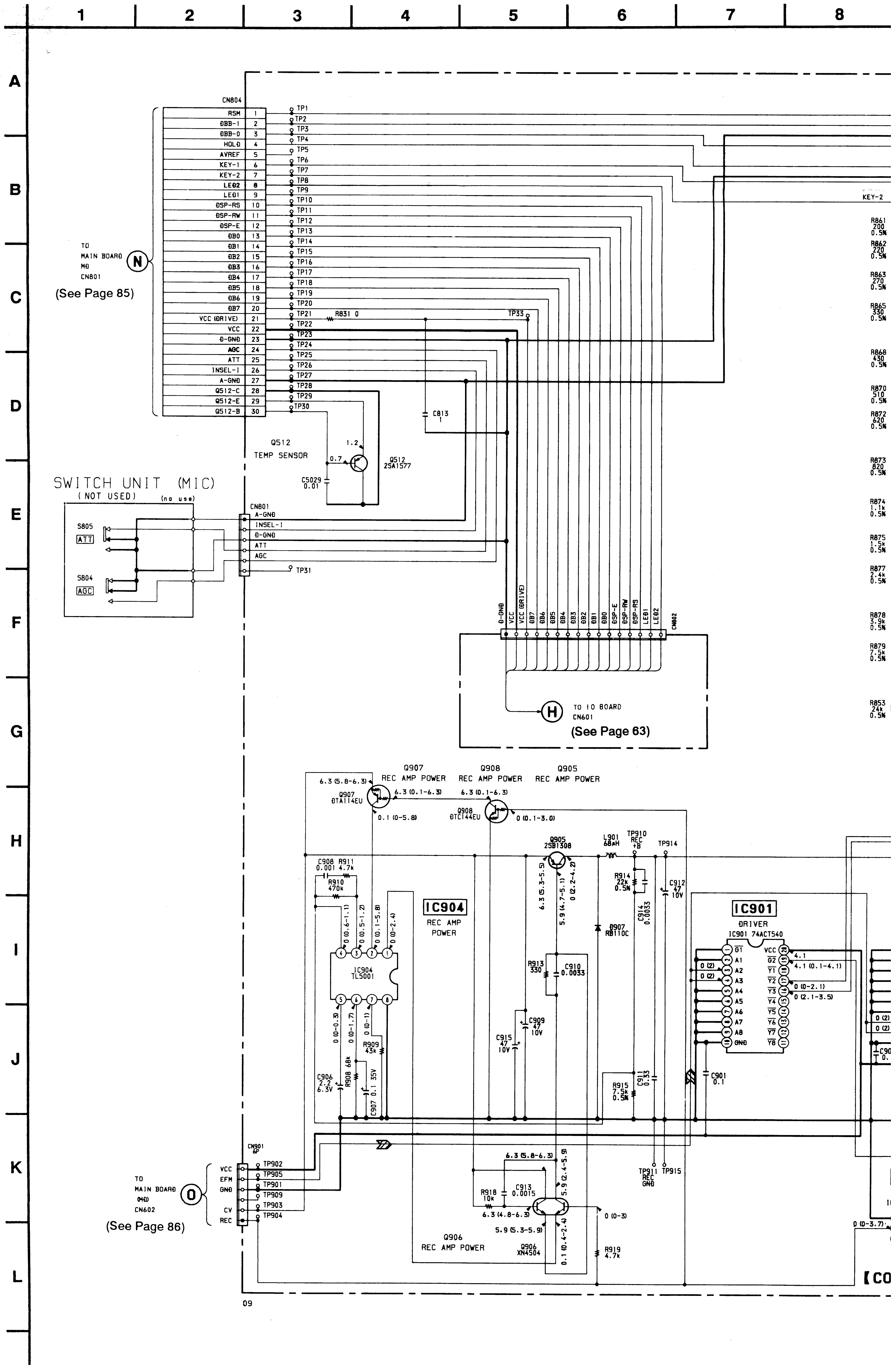


M701 CLV MOTOR
[CLV BOARD] (SIDE A)
[CLV BOARD] (SIDE B)
M702 SLED MOTOR
CN702
CN701
IC701
MECHANISM CHASSIS
(P)
TO MAIN BOARD(MD) CN502
(See Page 78)
11
1-645-920-
S702 REFRECT
S701 DISK PROTECT
11
1-645-920-
(See Page 78)
(Q)
TO MAIN BOARD(MD) CN401
M703 LOADING MOTOR
7 6 5 4 3 2 1
S704 LOAD
S705 HEAD
S706 PAC IN
S707 PAC CHECK
SWITCH UNIT (DETECTION)
[POWER (A) BOARD] (SIDE A)
CN402
13
1-645-918-
[POWER (A) BOARD] (SIDE B)
13
1-645-918-
[POWER (B) BOARD] (SIDE A)
CN404
13
1-646-528-
[POWER (B) BOARD] (SIDE B)
13
1-646-528-
[POWER (C) BOARD] (SIDE A)
CN604
13
1-646-529-
[POWER (C) BOARD] (SIDE B)
13
1-646-529-

4-11. SCHEMATIC DIAGRAMS

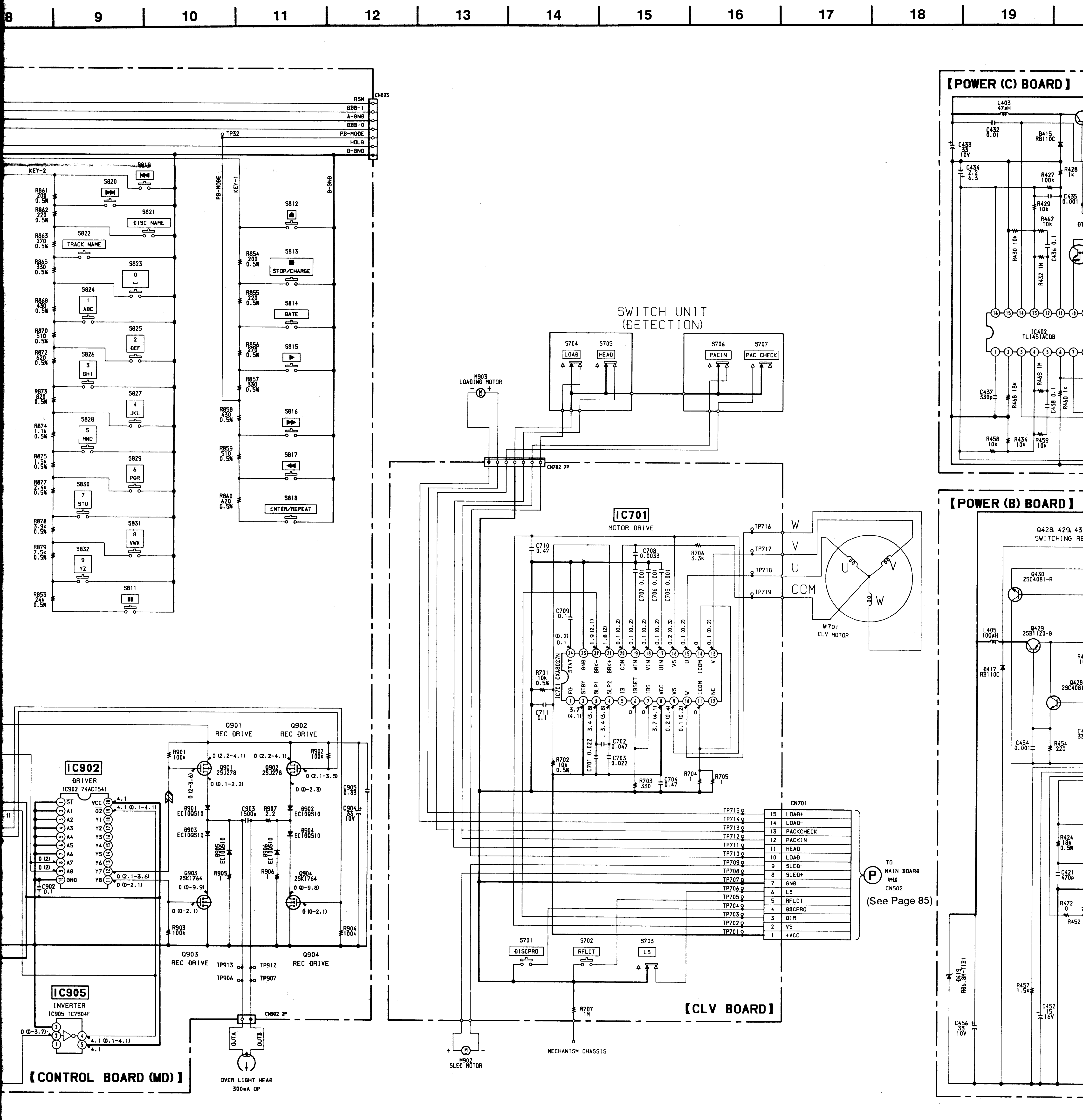
• MD SECTION 1 (CONTROL, CLV, POWER (A), POWER (B) and POWER (C) board)

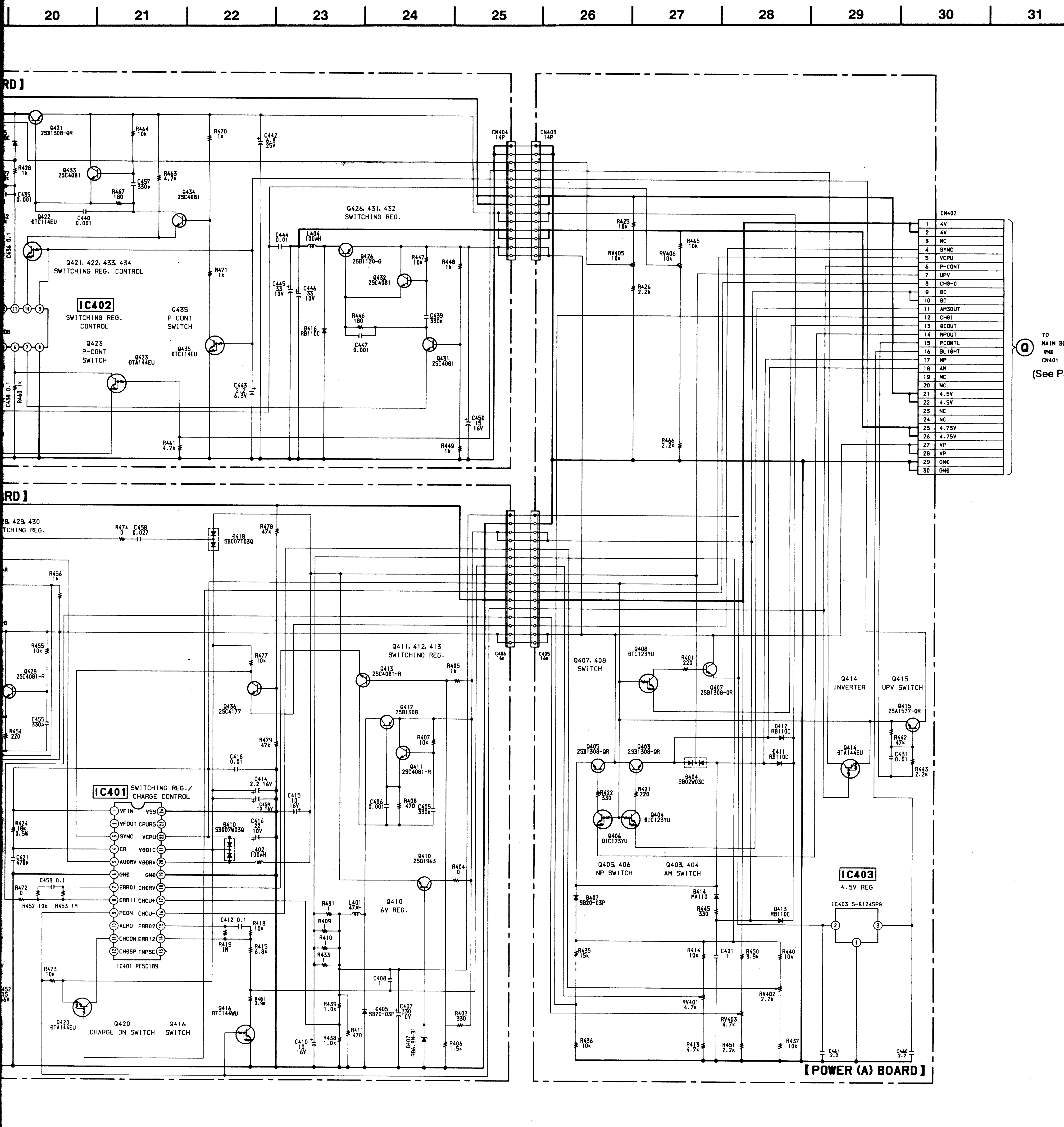
• See page 94 for IC Block Diagrams.


1
2
3
4
5
6
7
8
A
B
C
D
E
F
G
H
I
J
K
L
CN804
RSM 1 TP1
DBB-1 2 TP2
DBB-0 3 TP3
HOLD 4 TP4
AVREF 5 TP5
KEY-1 6 TP6
KEY-2 7 TP7
LE02 8 TP8
LE01 9 TP9
DSP-RS 10 TP10
DSP-RW 11 TP11
DSP-E 12 TP12
DB0 13 TP13
DB1 14 TP14
DB2 15 TP15
DB3 16 TP16
DB4 17 TP17
DB5 18 TP18
DB6 19 TP19
DB7 20 TP20
VCC (DRIVE) 21 TP21
VCC 22 TP22
D-GND 23 TP23
AGC 24 TP24
ATT 25 TP25
INSEL-1 26 TP26
A-GND 27 TP27
Q512-C 28 TP28
Q512-E 29 TP29
Q512-B 30 TP30
R831 0
TP33
C813 1
TO MAIN BOARD MD CN801
N
(See Page 85)
Q512 TEMP SENSOR
1.2
0.7
Q512 2SA1577
C5029 0.01
SWITCH UNIT (MIC)
(NOT USED)
(no use)
S805 ATT
S804 AGC
CN801
A-GND
INSEL-1
D-GND
ATT
AGC
TP31
KEY-2
R861 200 0.5%
R862 220 0.5%
R863 270 0.5%
R865 330 0.5%
R868 430 0.5%
R870 510 0.5%
R872 620 0.5%
R873 820 0.5%
R874 1.1k 0.5%
R875 1.5k 0.5%
R877 2.4k 0.5%
R878 3.9k 0.5%
R879 7.5k 0.5%
R853 24k 0.5%
D-GND VCC VCC (DRIVE) DB7 DB6 DB5 DB4 DB3 DB2 DB1 DB0 DSP-E DSP-RW DSP-RS LE01 LE02
CN802
H
TO IO BOARD CN601
(See Page 63)
Q907 REC AMP POWER
Q908 REC AMP POWER
Q905 REC AMP POWER
6.3 (5.8-6.3)
Q907 DTA114EU
6.3 (0.1-6.3)
0.1 (0-5.8)
Q908 DTC144EU
6.3 (0.1-6.3)
0 (0.1-3.0)
Q905 2SB1308
L901 68µH
TP910 REC +B
TP914
C908 0.001
R911 4.7k
R910 470k
IC904
REC AMP POWER
IC904 TL5001
R914 22k 0.5%
C912 47 10V
C914 0.0033
D907 RB110C
R913 330
C910 0.0033
C915 47 10V
C909 47 10V
R909 43k
R908 68k
C906 2.2 6.3V
C907 0.1 35V
R915 7.5k 0.5%
C911 0.33
IC901
DRIVER
IC901 74ACT540
VCC
G1 G2
A1 A2 A3 A4 A5 A6 A7 A8 GND
Y1 Y2 Y3 Y4 Y5 Y6 Y7 Y8
4.1
4.1 (0.1-4.1)
0 (0-2.1)
0 (2.1-3.5)
0 (2)
C901 0.1
CN901 6P
VCC TP902
EFM TP905
GND TP901
TP909
CV TP903
REC TP904
TO MAIN BOARD (MD) CN602
O
(See Page 86)
6.3 (5.8-6.3)
R918 10k
C913 0.0015
6.3 (4.8-6.3)
5.9 (5.3-5.9)
0.1 (0.4-2.4)
5.9 (2.4-5.9)
0 (0-3)
R919 4.7k
Q906 REC AMP POWER
Q906 XN4504
TP911 REC GND
TP915
0 (0-3.7)
09
[CO

Note:

- All capacitors are in µF unless otherwise noted. pF:µµF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- % : indicates tolerance.
- ▬ : B+ Line
- ▭ : adjustment for repair.
- Voltages are taken with a VOM (Input impedance 10Ω). Voltage variations may be noted due to normal production tolerances.
  no mark : PB
  ( ) : REC
- Signal path.
  ▷ : PB (ANALOG OUT) ▷› : PB (DIGITAL OUT)
  ▶ : REC (ANALOG IN) ▶› : REC (DIGITAL IN)


8
9
10
11
12
13
14
15
16
17
18
19
RSM
DBB-1
A-GND
DBB-0
PB-MODE
HOLD
D-GND
CN803
TP32
KEY-2
KEY-1
PB-MODE
D-GND
S819
S820
S821
DISC NAME
S822
TRACK NAME
S823
S824
1 ABC
S825
2 DEF
S826
3 GHI
S827
4 JKL
S828
5 MNO
S829
6 PQR
S830
7 STU
S831
8 VWX
S832
9 YZ
S811
S812
S813
STOP/CHARGE
S814
DATE
S815
S816
S817
S818
ENTER/REPEAT
R861 200 0.5%
R862 220 0.5%
R863 270 0.5%
R865 330 0.5%
R868 430 0.5%
R870 510 0.5%
R872 620 0.5%
R873 820 0.5%
R874 1.1k 0.5%
R875 1.5k 0.5%
R877 2.4k 0.5%
R878 3.9k 0.5%
R879 7.5k 0.5%
R853 24k 0.5%
R854 200 0.5%
R855 220 0.5%
R856 270 0.5%
R857 330 0.5%
R858 430 0.5%
R859 510 0.5%
R860 620 0.5%
SWITCH UNIT (DETECTION)
S704 LOAD
S705 HEAD
S706 PACIN
S707 PAC CHECK
M903 LOADING MOTOR
CN702 7P
IC701
MOTOR DRIVE
IC701 CXA8027N
TP716
TP717
TP718
TP719
W
V
U
COM
M701 CLV MOTOR
C710 0.47
C708 0.0033
R706 3.3k
C707 0.001
C706 0.001
C705 0.001
C709 0.1
R701 10k 0.5%
C711 0.1
C701 0.022
C702 0.047
C703 0.022
R702 10k 0.5%
R703 330
C704 0.47
R704 1
R705 1
CN701
TP715 15 LOAD+
TP714 14 LOAD-
TP713 13 PACKCHECK
TP712 12 PACKIN
TP711 11 HEAD
TP710 10 LOAD
TP709 9 SLED-
TP708 8 SLED+
TP707 7 GND
TP706 6 LS
TP705 5 RFLCT
TP704 4 DISCPRO
TP703 3 DIR
TP702 2 VS
TP701 1 +VCC
P TO MAIN BOARD (MD) CN502
(See Page 85)
S701 DISCPRO
S702 RFLCT
S703 LS
R707 1M
MECHANISM CHASSIS
M902 SLED MOTOR
【CLV BOARD】
IC902
DRIVER
IC902 74ACT541
Q901 REC DRIVE
Q902 REC DRIVE
Q901 2SJ278
Q902 2SJ278
R901 100k
R902 100k
D901 EC10QS10
D902 EC10QS10
D903 EC10QS10
D904 EC10QS10
D905 EC10QS10
D906 EC10QS10
C903 1500p
R907 2.2
C905 0.33
C904 33 10V
Q903 2SK1764
Q904 2SK1764
R905 1
R906 1
R903 100k
R904 100k
C902 0.1
Q903 REC DRIVE
Q904 REC DRIVE
TP913
TP912
TP906
TP907
CN902 2P
OUTA
OUTB
OVER LIGHT HEAD 300mA OP
IC905
INVERTER
IC905 TC7S04F
【CONTROL BOARD (MD)】
【POWER (C) BOARD】
L403 47μH
C432 0.01
D415 RB110C
C433 33 10V
C434 2.2 6.3
R427 100k
R428 1k
C435 0.001
R429 10k
R462 10k
R430 10k
R432 1M
C436 0.1
IC402 TL1451ACDB
C437 330p
R468 18k
R469 1M
C438 0.1
R460 1k
R458 10k
R434 10k
R459 10k
【POWER (B) BOARD】
Q428, 429, 430 SWITCHING REG
Q430 2SC4081-R
L405 100μH
Q429 2SB1120-G
D417 RB110C
Q428 2SC4081
C454 0.001
R454 220
R424 18k 0.5%
C421 470p
R472
R452
D419 RB6.8H-T1B1
R457 1.5k
C452 15 16V
C456 33 10V


20
21
22
23
24
25
26
27
28
29
30
31
RD]
Q421 2SB1308-QR
R464 10k
R470 1k
C442 6.8 25V
R428 1k
Q433 2SC4081
C457 330p
R463 4.7k
Q434 2SC4081
R467 180
C435 0.001
Q422 DTC114EU
C440 0.001
C436 0.1
Q421, 422, 433, 434 SWITCHING REG. CONTROL
IC402 SWITCHING REG. CONTROL
Q423 P-CONT SWITCH
Q423 DTA144EU
Q435 P-CONT SWITCH
Q435 DTC114EU
R471 1k
C438 0.1
R440 1k
C443 2.2 6.3V
R461 4.7k
Q426, 431, 432 SWITCHING REG.
C444 0.01
L404 100µH
Q426 2SB1120-Q
R447 10k
R448 1k
Q432 2SC4081
C445 33 10V
C446 33 10V
R446 180
C439 330p
D416 RB110C
C447 0.001
Q431 2SC4081
C450 15 16V
R449 1k
CN404 14P
CN403 14P
CN406 16P
CN405 16P
R425 10k
RV405 10k
RV406 10k
R465 10k
R426 2.2k
R466 2.2k
CN402
1 4V
2 4V
3 NC
4 SYNC
5 VCPU
6 P-CONT
7 UPV
8 CHG-0
9 DC
10 DC
11 AM3OUT
12 CHGI
13 DCOUT
14 NPOUT
15 PCONTL
16 BLIGHT
17 NP
18 AM
19 NC
20 NC
21 4.5V
22 4.5V
23 NC
24 NC
25 4.75V
26 4.75V
27 VP
28 VP
29 GND
30 GND
Q
TO MAIN BO
(MQ)
CN401
(See P
RD]
28, 429, 430
TCHING REG.
R474 0
C458 0.027
D418 SB007T03Q
R478 47k
R456 1k
R455 10k
Q428 2SC4081-R
C455 330p
R454 220
R477 10k
Q436 2SC4177
R479 47k
C418 0.01
C414 2.2 16V
C459 10 16V
C415 10 16V
C416 22 10V
D410 SB007W03Q
L402 100µH
IC401 SWITCHING REG./ CHARGE CONTROL
VFIN VSS
VFOUT CPURS
SYNC VCPU
CR VDDIC
AUDRV VDDRV
GND GND
ERR01 CHDRV
ERR11 CHCU+
PCON CHCU-
ALMO ERR02
CHCON ERR12
CHOSP TNPSE
IC401 RF5C189
R424 18k 0.5%
C421 470p
C453 0.1
R472 0
R452 10k
R453 1M
C412 0.1
R418 10k
R419 1M
R415 6.8k
R473 10k
Q420 DTA144EU
Q420 CHARGE ON SWITCH
Q416 SWITCH
Q416 DTC144WU
R481 3.9k
Q411, 412, 413 SWITCHING REG.
Q413 2SC4081-R
R405 1k
Q412 2SB1308
R407 10k
Q411 2SC4081-R
C406 0.001
R408 470
C405 330p
Q410 2SD1963
R404 0
R431 1
L401 47µH
Q410 6V REG.
R409 1
R410 1
R433 1
C408 1
R439 1.0k
D405 SB20-03P
C407 330 10V
R403 330
R411 470
D402 RD6.8M-B1
R438 1.0k
C410 10 16V
R406 1.5k
Q407, 408 SWITCH
Q408 DTC123YU
R401 220
Q407 2SB1308-QR
Q414 INVERTER
Q415 UPV SWITCH
Q415 2SA1577-QR
D412 RB110C
R442 47k
C431 0.01
R443 2.2k
Q405 2SB1308-QR
Q403 2SB1308-QR
D411 RB110C
Q414 DTA144EU
D404 SB02W03C
R422 330
R421 220
Q404 DTC123YU
Q406 DTC123YU
Q405, 406 NP SWITCH
Q403, 404 AM SWITCH
IC403 4.5V REG
IC403 S-81245PG
D407 SB20-03P
D414 MA110
R445 330
D413 RB110C
R435 15k
R414 10k
C401 1
R450 3.9k
R440 10k
RV402 2.2k
RV401 4.7k
RV403 4.7k
R436 10k
R413 4.7k
R451 2.2k
R437 10k
C461 2.2
C460 2.2
[POWER (A) BOARD]

4-12. PRINTED WIRING BOARDS

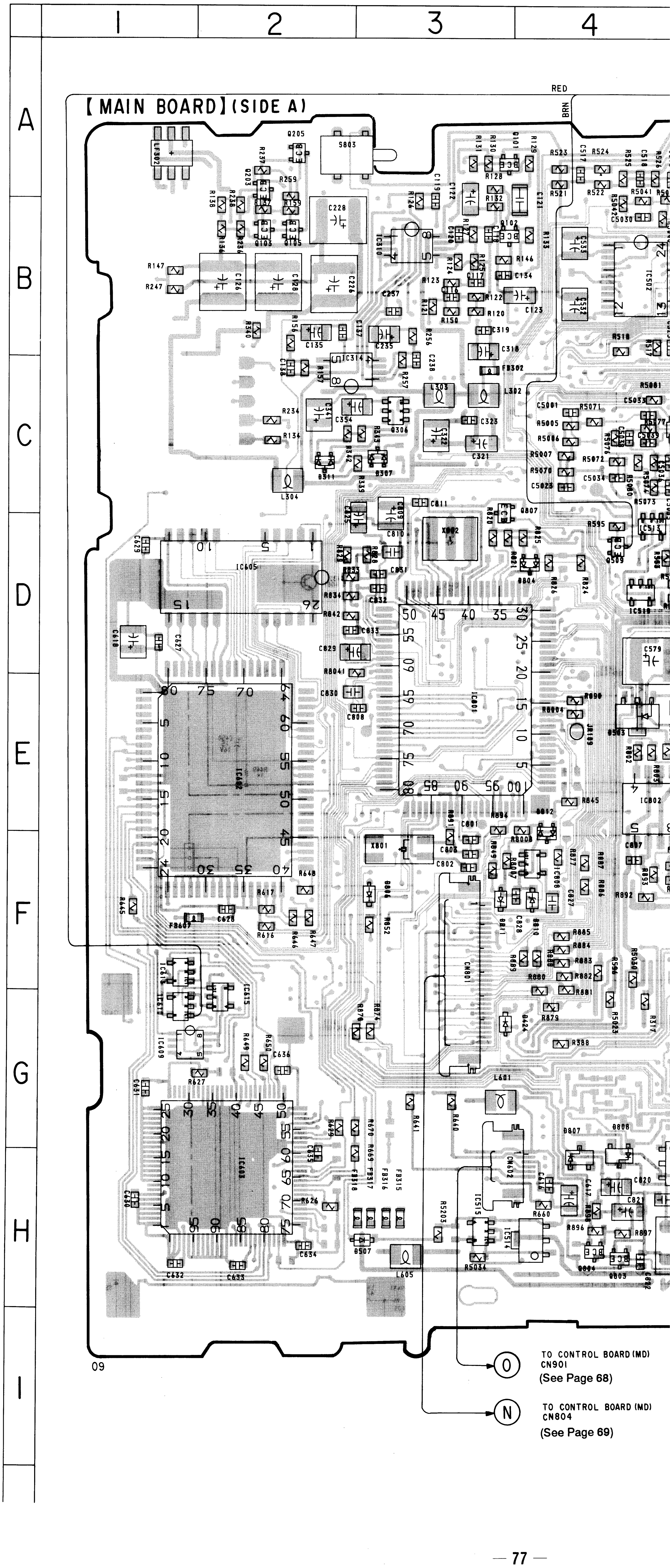
- **MD SECTION 2 (MAIN, PTOC board)**
- **See page 37 for Circuit Boards Location and see page 91 for Semiconductor Lead Layouts.**

- **Semiconductor Location**

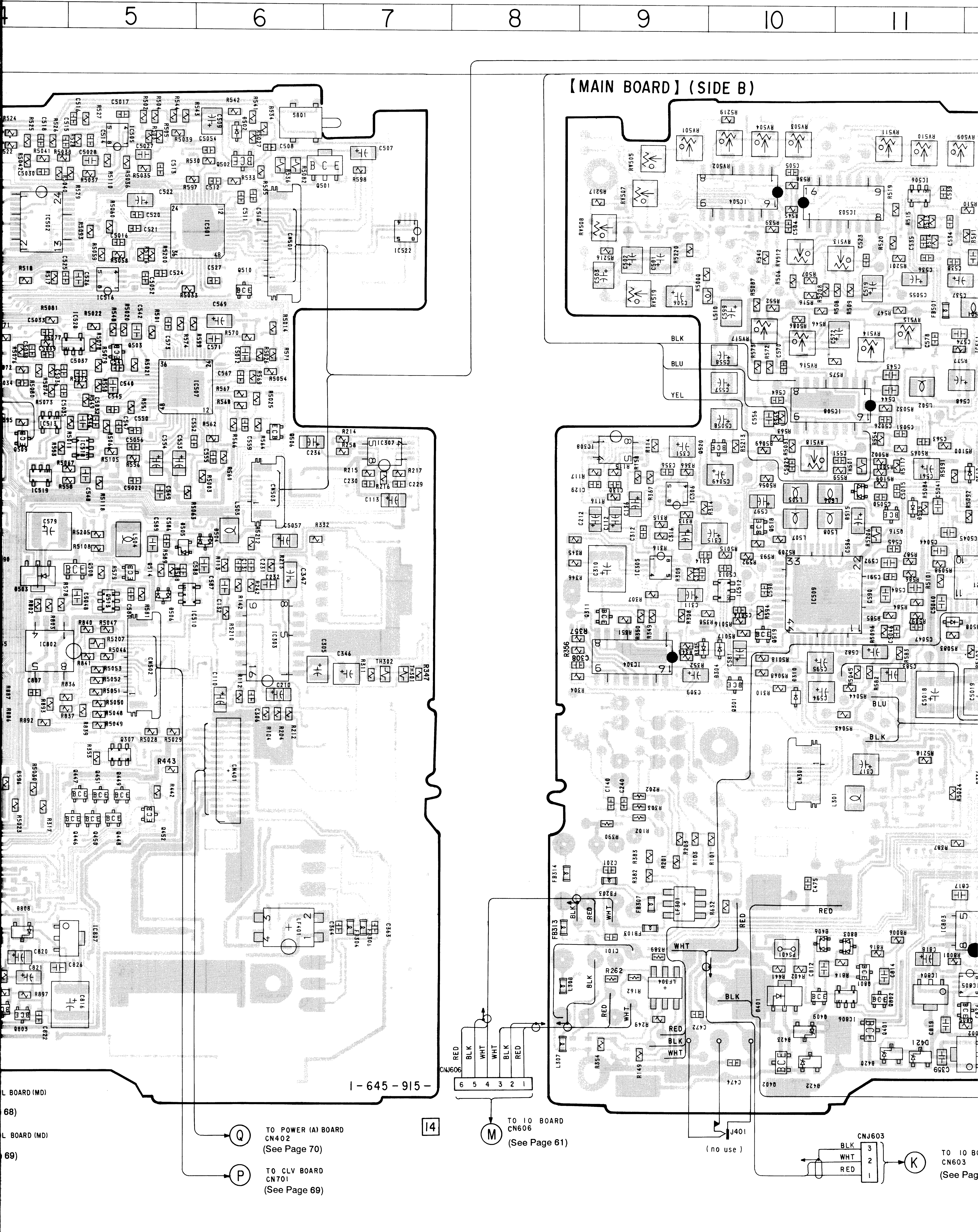
Ref No.	Location	Ref. No.	Location	Ref. No.	Location
D301	A-14	IC315	H-12	Q101	A-3
D304	E-10	IC410	G-12	Q102	B-3
D305	E-9	IC501	B-5	Q103	B-2
D307	C-3	IC502	B-4	Q105	B-2
D310	F-10	IC503	B-11	Q201	A-13
D311	C-2	IC504	B-10	Q202	B-12
D401	H-10	IC505	A-5	Q203	A-2
D406	H-10	IC506	B-11	Q205	A-2
D420	H-11	IC507	C-5	Q301	F-10
D421	H-11	IC508	C-10	Q302	A-12
D422	I-10	IC509	E-10	Q303	C-15
D423	H-10	IC510	E-5	Q304	C-15
D424	G-3	IC511	C-12	Q306	C-3
D502	A-6	IC512	E-10	Q307	F-5
D503	E-4	IC513	D-4	Q309	F-14
D504	D-6	IC514	H-4	Q310	F-13
D505	E-5	IC515	H-3	Q311	E-9
D506	E-5	IC516	B-5	Q312	D-12
D507	H-3	IC517	C-12	Q401	H-11
D508	E-11	IC518	D-5	Q402	I-10
D509	D-11	IC519	D-4	Q409	H-10
D511	D-12	IC520	C-5	Q445	G-12
D512	D-12	IC521	E-12	Q446	G-5
D515	D-11	IC522	B-17	Q447	F-5
D601	D-13	IC601	E-14	Q448	G-5
D602	D-14	IC602	E-2	Q449	F-5
D691	B-17	IC603	H-2	Q450	G-5
D692	B-17	IC604	H-14	Q451	F-5
D693	B-18	IC605	D-2	Q452	G-5
D803	H-11	IC606	E-14	Q501	B-6
D804	D-4	IC607	D-14	Q502	B-6
D806	F-3	IC608	D-14	Q503	C-5
D807	H-4	IC609	G-1	Q506	D-6
D808	H-4	IC610	G-1	Q508	E-5
D809	H-12	IC611	F-14	Q509	D-4
D810	F-4	IC612	G-14	Q510	C-6
D811	F-3	IC613	F-1	Q512	A-12
D812	F-4	IC614	F-14	Q513	E-5
		IC615	G-2	Q514	E-5
IC303	E-6	IC691	B-17	Q516	D-11
IC304	E-9	IC692	B-17	Q518	D-10
IC305	E-9	IC801	E-3	Q519	E-10
IC306	D-9	IC802	E-4	Q520	D-10
IC307	D-7	IC803	G-12	Q801	H-11
IC308	D-9	IC804	H-11	Q802	H-11
IC309	C-13	IC805	H-12	Q803	H-4
IC310	B-3	IC806	H-11	Q804	H-4
IC311	B-14	IC807	H-4	Q805	H-12
IC312	C-14	IC808	F-4	Q806	H-12
IC314	C-2			Q807	D-3

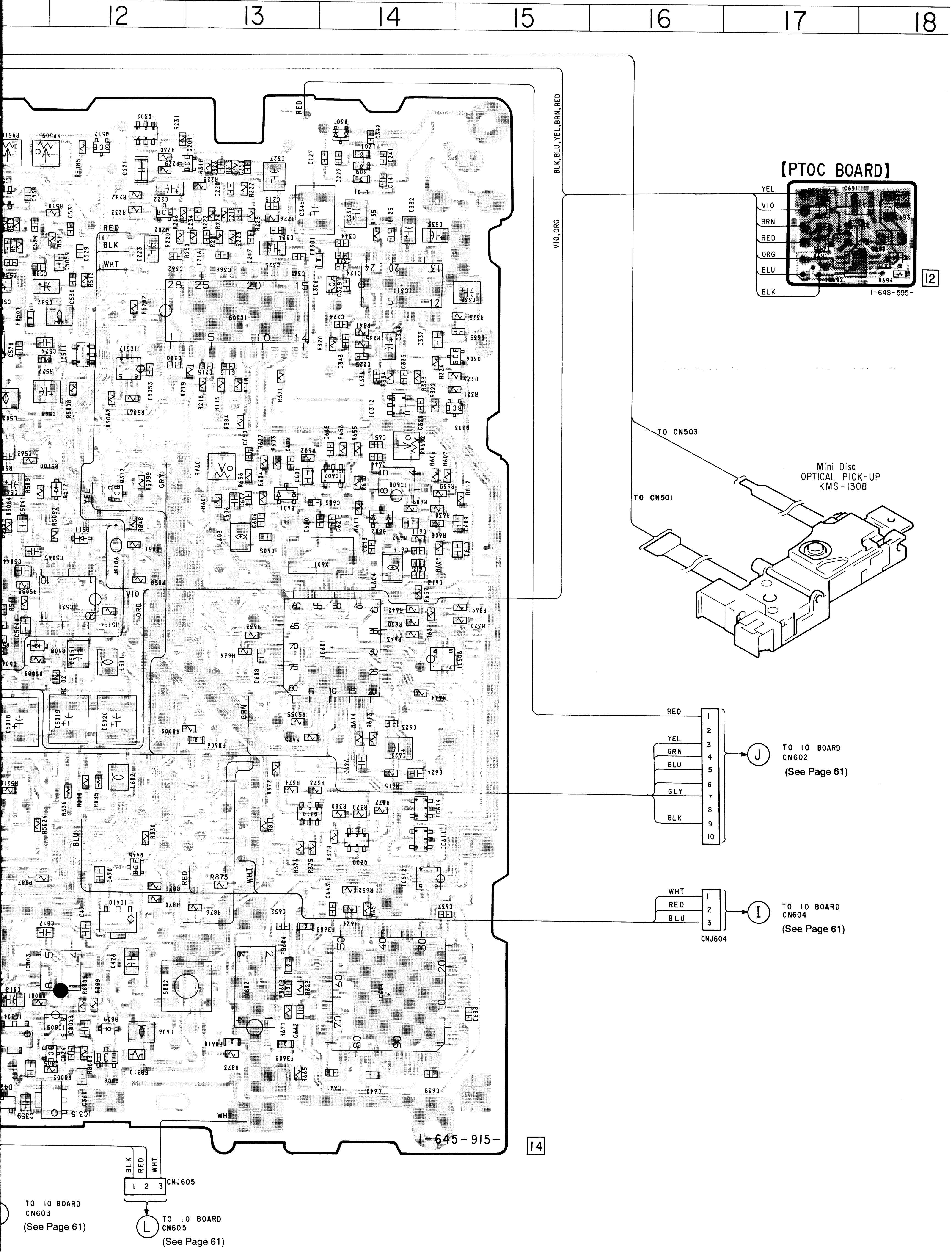
Note:
- ▨ : Pattern on the side which is seen.
- ▨ : Pattern of the rear side.

Caution:
Conductor side: (Side B) Parts on the Conductor side seen from the are indicated.
Component side: (Side A) Parts on the Component side seen from the Component side are indicated.



【MAIN BOARD】 (SIDE B)


4
5
6
7
8
9
10
11
1-645-915-
14
CNJ606
RED
BLK
WHT
WHT
BLK
RED
6 5 4 3 2 1
Q
TO POWER (A) BOARD
CN402
(See Page 70)
P
TO CLV BOARD
CN701
(See Page 69)
M
TO IO BOARD
CN606
(See Page 61)
J401
(no use)
CNJ603
BLK
WHT
RED
3
2
1
K
TO IO BO
CN603
(See Pag
L BOARD (MD)
68)
L BOARD (MD)
69)
BLK
BLU
YEL
IC501
IC502
IC503
IC504
IC505
IC506
IC507
IC508
IC509
IC510
IC513
IC516
IC519
IC520
IC522
IC303
IC304
IC305
IC306
IC307
IC308
IC802
IC807
IC804
CN301
CN401
CN501
CN502
CN503
LF301
LF304
LF401
S801
Q501
Q502
Q510
R443
R347
TH301
TH302


12
13
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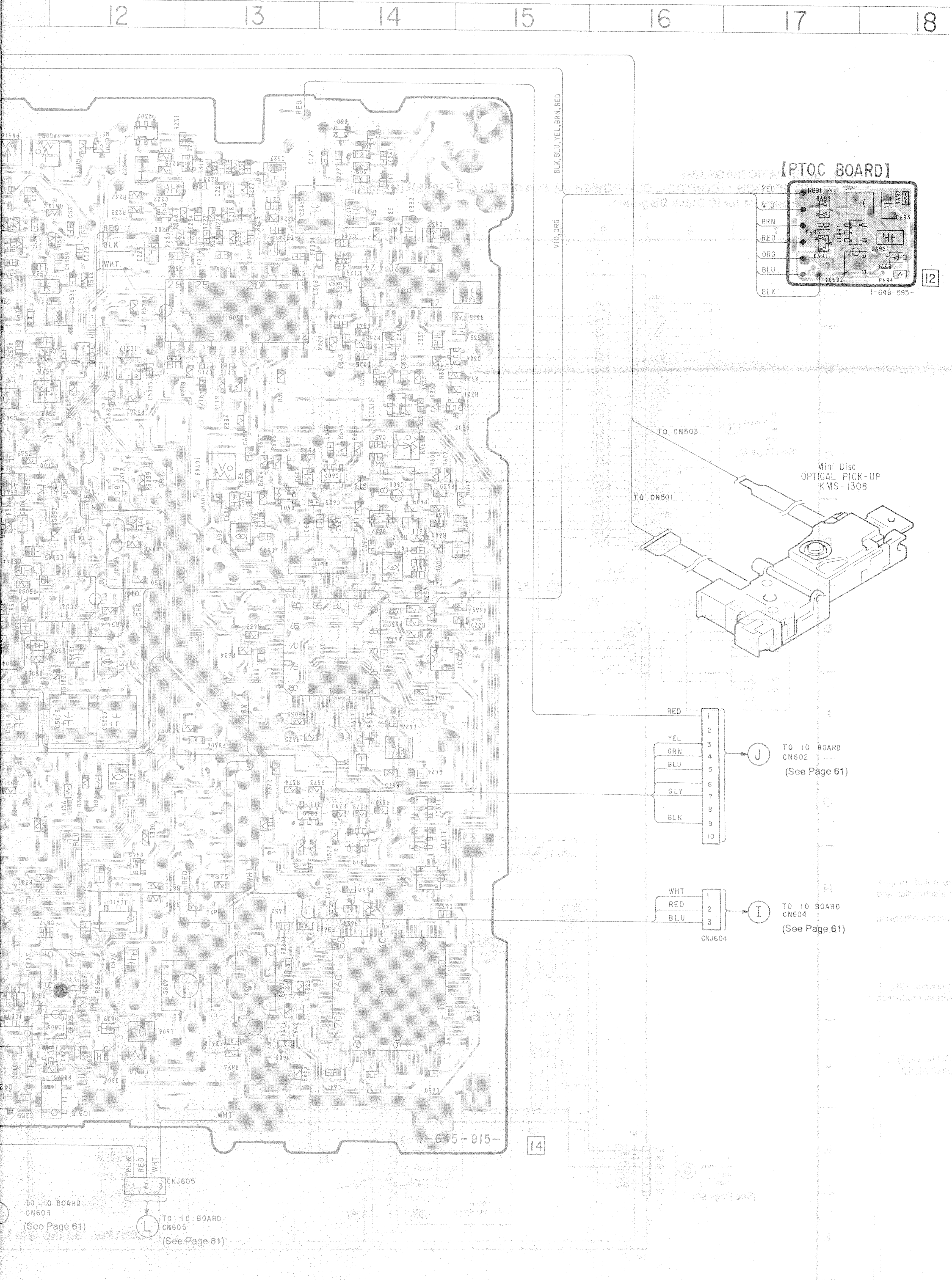
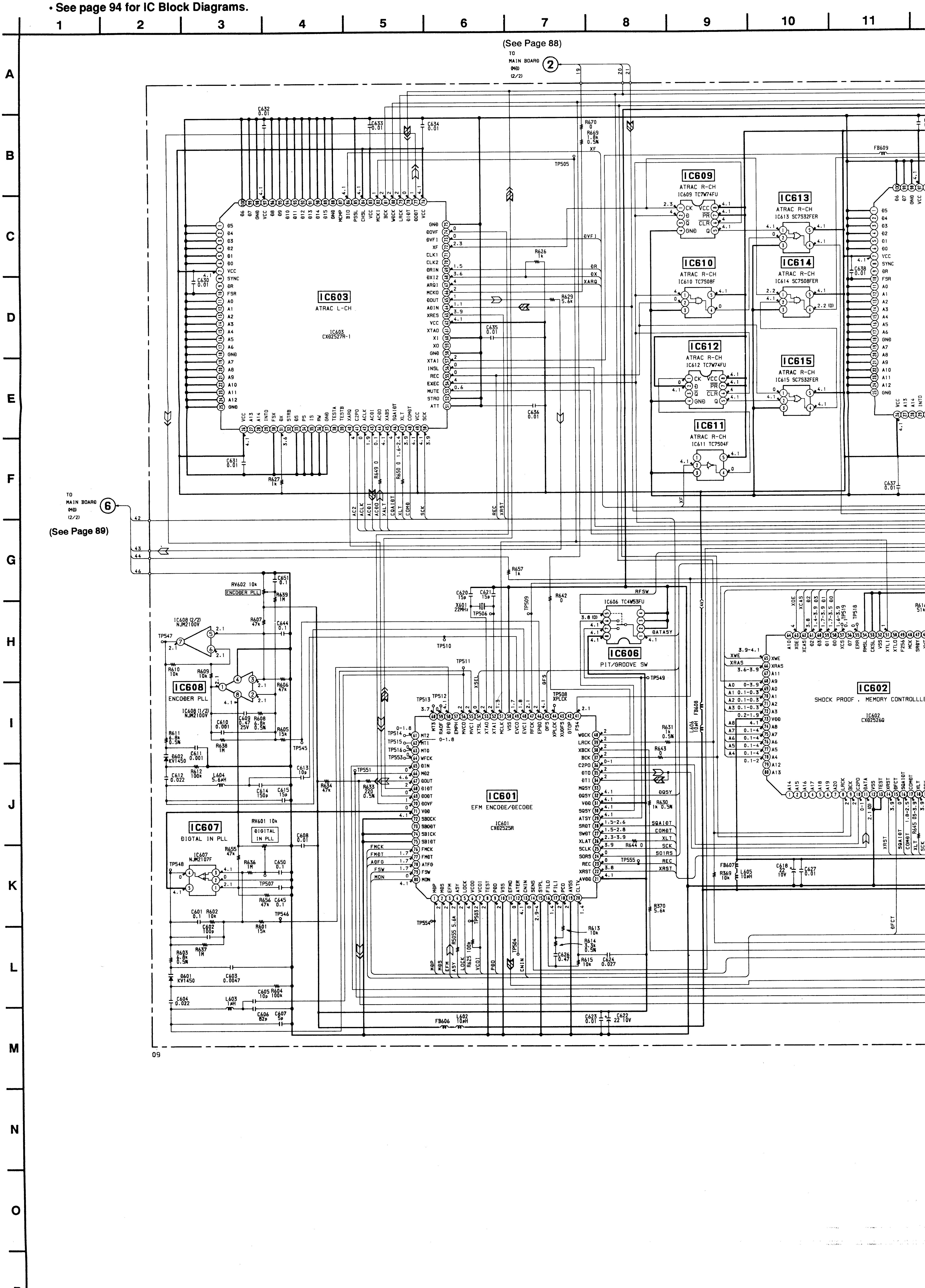
16
17
18
【PTOC BOARD】
YEL
VIO
BRN
RED
ORG
BLU
BLK
12
1-648-595-
BLK,BLU,YEL,BRN,RED
VIO,ORG
TO CN503
TO CN501
Mini Disc
OPTICAL PICK-UP
KMS-130B
IC601
IC604
IC309
IC311
X601
X602
S802
RED
YEL
GRN
BLU
GLY
BLK
J
TO IO BOARD
CN602
(See Page 61)
WHT
RED
BLU
CNJ604
I
TO IO BOARD
CN604
(See Page 61)
1-645-915-
14
BLK
RED
WHT
CNJ605
TO IO BOARD
CN603
(See Page 61)
L
TO IO BOARD
CN605
(See Page 61)

12
13
14
15
16
17
18
【PTOC BOARD】
YEL
VIO
BRN
RED
ORG
BLU
BLK
12
1-648-595-
BLK,BLU,YEL,BRN,RED
VIO,ORG
TO CN503
TO CN501
Mini Disc
OPTICAL PICK-UP
KMS-130B
RED
YEL
GRN
BLU
GLY
BLK
TO IO BOARD
CN602
(See Page 61)
J
WHT
RED
BLU
CNJ604
TO IO BOARD
CN604
(See Page 61)
I
IC601
IC604
IC309
IC311
1-645-915-
14
BLK
RED
WHT
CNJ605
TO IO BOARD
CN603
(See Page 61)
TO IO BOARD
CN605
(See Page 61)
L

4-13. SCHEMATIC DIAGRAM

- **MD SECTION 2 (MAIN (1/2) board)**
- **See page 94 for IC Block Diagrams.**



1
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9
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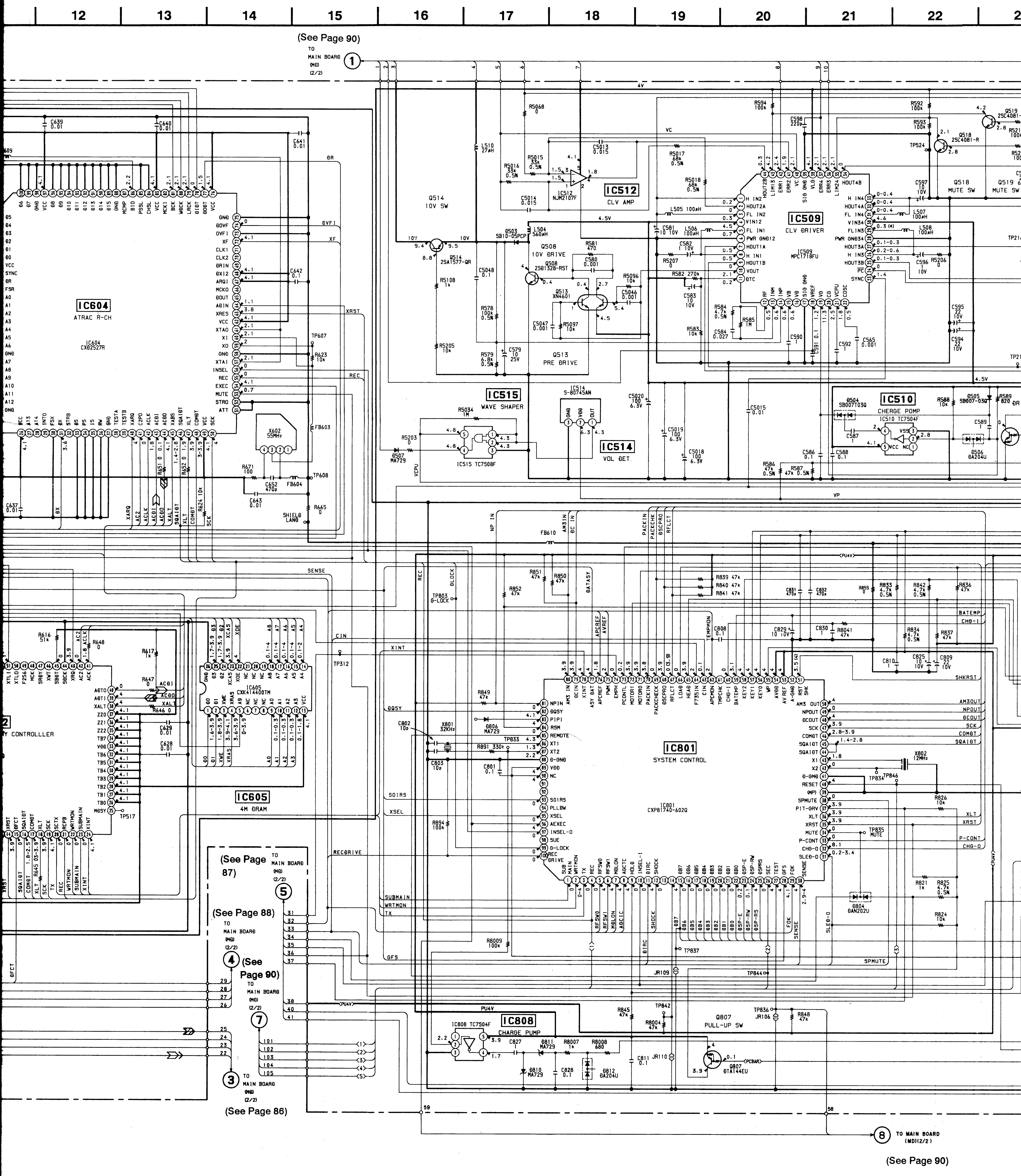
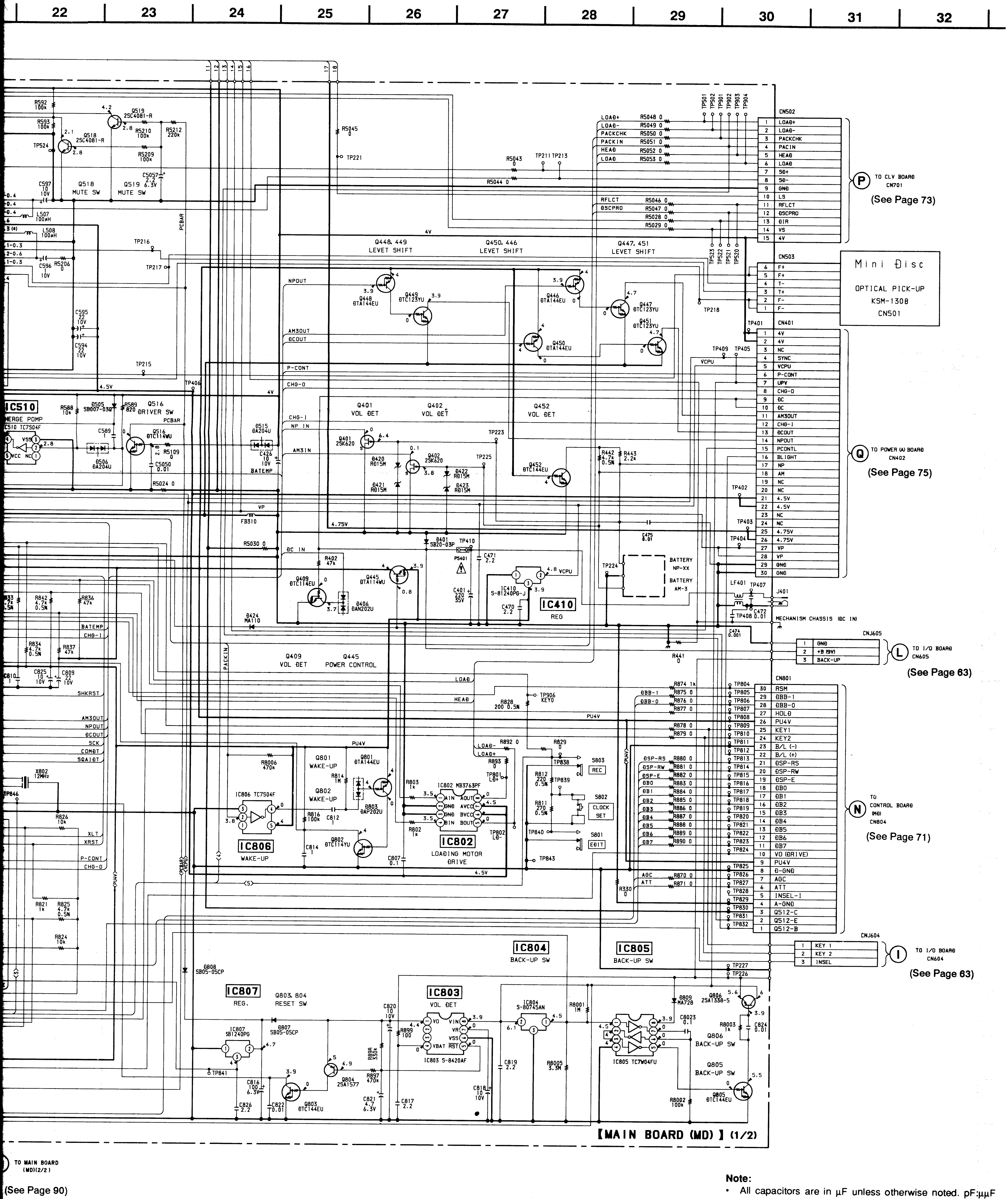
11
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
(See Page 88)
TO MAIN BOARD (MD) (2/2)
②
TO MAIN BOARD (MD) (2/2)
⑥
(See Page 89)
IC603
ATRAC L-CH
IC603 CXD2527R-1
IC609
ATRAC R-CH
IC609 TC7W74FU
IC610
ATRAC R-CH
IC610 TC7S08F
IC612
ATRAC R-CH
IC612 TC7W74FU
IC611
ATRAC R-CH
IC611 TC7S04F
IC613
ATRAC R-CH
IC613 SC7S32FER
IC614
ATRAC R-CH
IC614 SC7S08FER
IC615
ATRAC R-CH
IC615 SC7S32FER
IC606 TC4W53FU
IC606
PIT/GROOVE SW
IC608 (2/2) NJM2100V
IC608
ENCODER PLL
IC608 (1/2) NJM2100V
RV602 10k
ENCODER PLL
IC607
DIGTAL IN PLL
IC607 NJM2107F
RV601 10k
DIGITAL IN PLL
IC601
EFM ENCODE/DECODE
IC601 CXD2525R
IC602
SHOCK PROOF , MEMORY CONTROLLLE
IC602 CXD2526Q
X601 22MHz
FB606
L602 10μH
FB607
FB608
FB609


12
13
14
15
16
17
18
19
20
21
22
(See Page 90)
TO MAIN BOARD (MD) (2/2)
①
IC604
ATRAC R-CH
IC604 CXD2527R
IC605
4M DRAM
IC605 CXK414400TM
IC512
CLV AMP
IC512 NJM2107F
Q514
10V SW
Q514 2SA1577-QR
Q508
10V DRIVE
Q508 2SB1328-RST
Q513 XN4601
Q513
PRE DRIVE
IC509
CLV DRIVER
IC509 MPC1718FU
IC515
WAVE SHAPER
IC515 TC7S08F
IC514
S-80745AN
IC514
VOL DET
IC510
CHERGE POMP
IC510 TC7S04F
Q518 2SC4081-R
Q518
MUTE SW
Q519 2SC4081
Q519
MUTE SW
X602
55MHz
IC801
SYSTEM CONTROL
IC801 CXP81740-602Q
X801
32KHz
X802
12MHz
Y CONTROLLLER
IC808
CHARGE PUMP
IC808 TC7S04F
Q807
PULL-UP SW
Q807 DTA144EU
(See Page 87)
TO MAIN BOARD (MD) (2/2)
⑤
(See Page 88)
TO MAIN BOARD (MD) (2/2)
④
(See Page 90)
TO MAIN BOARD (MD) (2/2)
⑦
③
TO MAIN BOARD (MD) (2/2)
(See Page 86)
⑧
TO MAIN BOARD (MD)(2/2)
(See Page 90)


22
23
24
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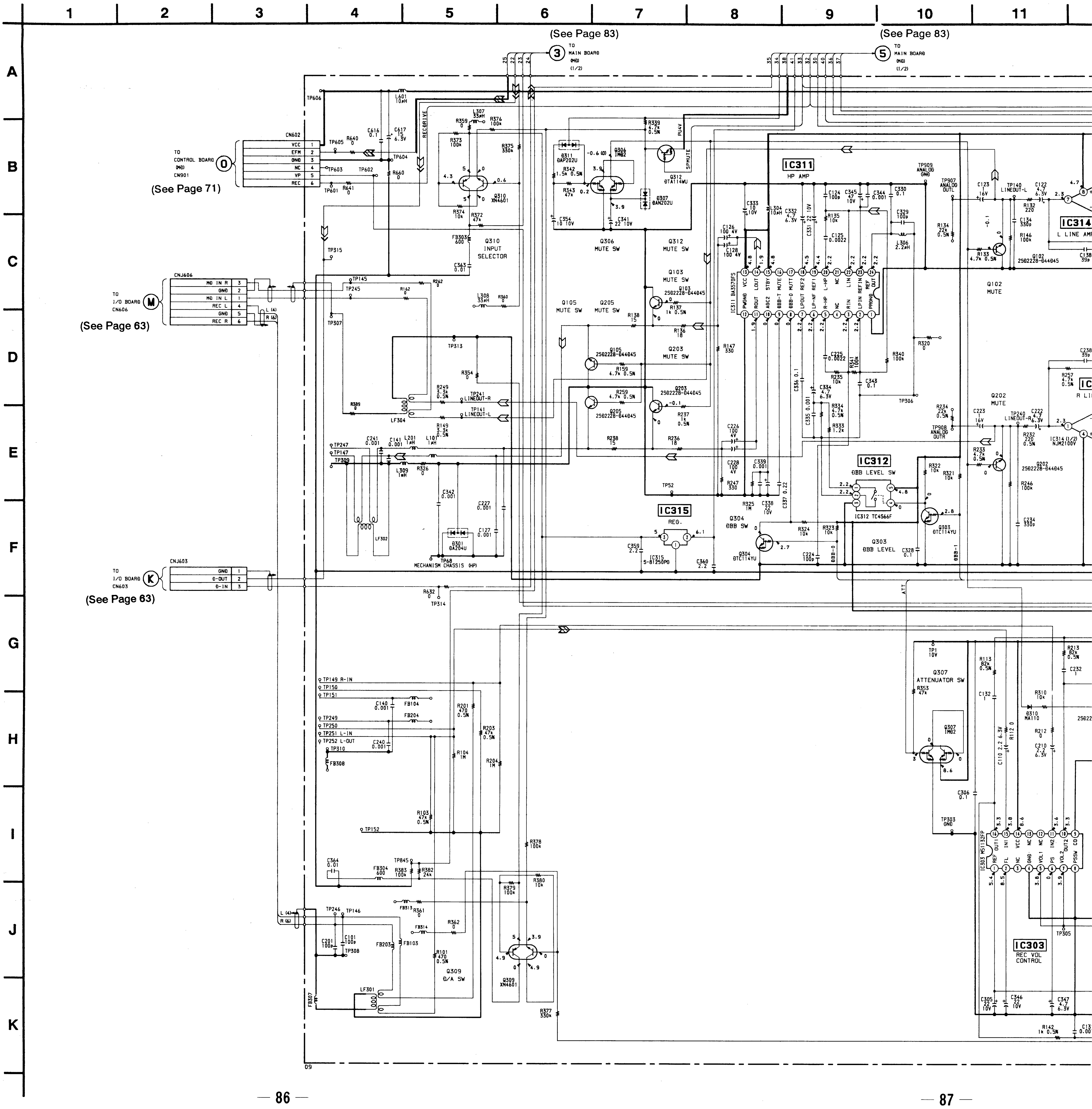
26
27
28
29
30
31
32
CN502
1 LOAD+
2 LOAD-
3 PACKCHK
4 PACIN
5 HEAD
6 LOAD
7 SO+
8 SO-
9 GND
10 LS
11 RFLCT
12 OSCPRO
13 DIR
14 VS
15 4V
TO CLV BOARD CN701
(See Page 73)
CN503
6 F+
5 F+
4 T-
3 T+
2 F-
1 F-
Mini Disc
OPTICAL PICK-UP
KSM-1308
CN501
CN401
1 4V
2 4V
3 NC
4 SYNC
5 VCPU
6 P-CONT
7 UPV
8 CHG-O
9 DC
10 DC
11 AM3OUT
12 CHG-I
13 DCOUT
14 NPOUT
15 PCONTL
16 BLIGHT
17 NP
18 AM
19 NC
20 NC
21 4.5V
22 4.5V
23 NC
24 NC
25 4.75V
26 4.75V
27 VP
28 VP
29 GND
30 GND
TO POWER (A) BOARD CN402
(See Page 75)
CNJ605
1 GND
2 +B (9V)
3 BACK-UP
TO I/O BOARD CN605
(See Page 63)
CN801
30 RSM
29 DBB-1
28 DBB-0
27 HOLD
26 PU4V
25 KEY1
24 KEY2
23 B/L (-)
22 B/L (+)
21 DSP-RS
20 DSP-RW
19 DSP-E
18 DB0
17 DB1
16 DB2
15 DB3
14 DB4
13 DB5
12 DB6
11 DB7
10 VO (DRIVE)
9 PU4V
8 D-GND
7 AGC
6 ATT
5 INSEL-I
4 A-GND
3 Q512-C
2 Q512-E
1 Q512-B
TO CONTROL BOARD (MD) CN804
(See Page 71)
CNJ604
1 KEY 1
2 KEY 2
3 INSEL
TO I/O BOARD CN604
(See Page 63)
Q518 MUTE SW
Q519 MUTE SW
IC510 CHARGE PUMP
IC510 TC7S04F
Q516 DRIVER SW
Q448, 449 LEVEL SHIFT
Q450, 446 LEVEL SHIFT
Q447, 451 LEVEL SHIFT
Q401 VOL DET
Q402 VOL DET
Q452 VOL DET
Q409 VOL DET
Q445 POWER CONTROL
IC410 S-81240PG-J
IC410 REG
BATTERY NP-XX
BATTERY AM-3
MECHANISM CHASSIS (DC IN)
Q801 WAKE-UP
Q802 WAKE-UP
IC806 TC7S04F
IC806 WAKE-UP
IC802 MB3763PF
IC802 LOADING MOTOR DRIVE
S803 REC
S802 CLOCK SET
S801 EDIT
IC807 REG.
IC807 S81240PG
Q803, 804 RESET SW
IC803 VOL DET
IC803 S-8420AF
IC804 BACK-UP SW
IC804 S-80745AN
IC805 BACK-UP SW
IC805 TC7W04FU
Q806 BACK-UP SW
Q805 BACK-UP SW
X802 12MHz
[MAIN BOARD (MD)] (1/2)
TO MAIN BOARD (MD)(2/2)
(See Page 90)

Note:

- All capacitors are in µF unless otherwise noted. pF:µµF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- % : indicates tolerance.
- ▬ : B+ Line
- ▭ : adjustment for repair.
- Voltages are taken with a VOM (Input impedance 10Ω). Voltage variations may be noted due to normal production tolerances.
  no mark : FM
  ( ) : REC
- Signal path.
  ⊳ : PB (ANALOG OUT) ⊳⊳ : PB (DIGITAL OUT)
  ⊳ : REC (ANALOG IN) ⊳⊳ : REC (DIGITAL IN)

4-14. SCHEMATIC DIAGRAMS

- **MD SECTION 2 (MAIN (2/2), PTOC board)**
- **See page 94 for IC Block Diagrams.**


1
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A
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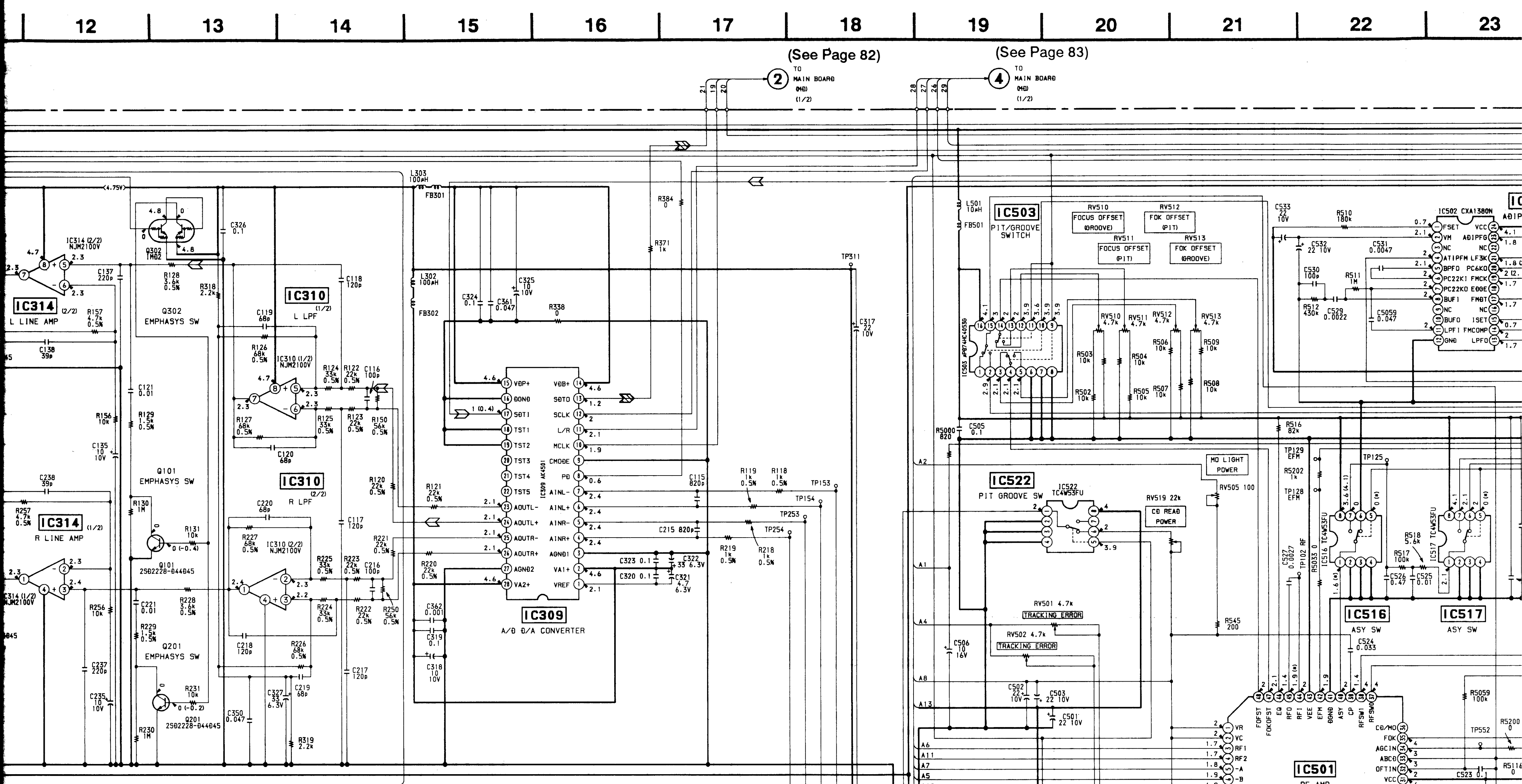
F
G
H
I
J
K
(See Page 83)
TO MAIN BOARD (MD) (1/2)
(See Page 83)
TO MAIN BOARD (MD) (1/2)
TO CONTROL BOARD (MD) CN901
(See Page 71)
CN602
VCC
EFM
GND
NC
VP
REC
TO I/O BOARD CN606
(See Page 63)
CNJ606
MD IN R
GND
MD IN L
REC L
GND
REC R
TO I/O BOARD CN603
(See Page 63)
CNJ603
GND
G-OUT
G-IN
Q310 INPUT SELECTOR
Q306 MUTE SW
Q312 MUTE SW
Q103 MUTE SW
Q105 MUTE SW
Q205 MUTE SW
Q203 MUTE SW
IC311 HP AMP
IC312 OBB LEVEL SW
IC315 REG.
Q304 OBB SW
Q303 OBB LEVEL
Q102 MUTE
Q202 MUTE
IC314 L LINE AMP
Q307 ATTENUATOR SW
IC303 REC VOL CONTROL
Q309 D/A SW
MECHANISM CHASSIS (HP)
RECDRIVE
SPMUTE
ATT


12
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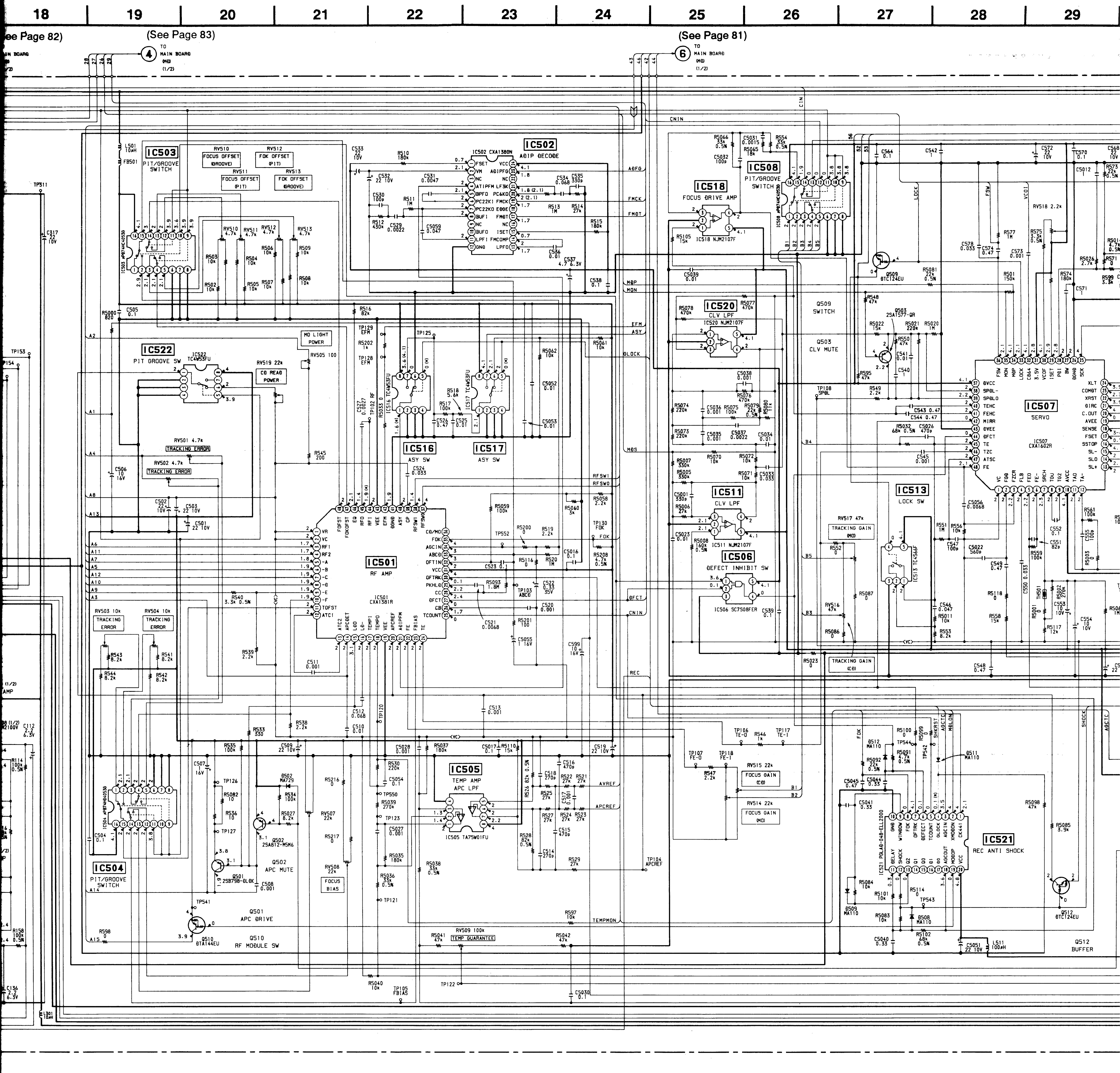
23
(See Page 82)
2 TO MAIN BOARD (MD) (1/2)
(See Page 83)
4 TO MAIN BOARD (MD) (1/2)
IC314 (2/2) NJM2100V
IC314 L LINE AMP
IC314 (1/2) R LINE AMP
Q302 EMPHASYS SW
Q101 EMPHASYS SW
Q201 EMPHASYS SW
IC310 L LPF
IC310 R LPF
IC309 A/D D/A CONVERTER
IC503 PIT/GROOVE SWITCH
RV510 FOCUS OFFSET (GROOVE)
RV511 FOCUS OFFSET (PIT)
RV512 FOK OFFSET (PIT)
RV513 FOK OFFSET (GROOVE)
IC502 CXA1380N
IC522 PIT GROOVE SW
MD LIGHT POWER
CD READ POWER
RV501 4.7k TRACKING ERROR
RV502 4.7k TRACKING ERROR
IC516 ASY SW
IC517 ASY SW
IC501 RF AMP
IC501 CXA1381R
RV503 10k TRACKING ERROR
RV504 10k TRACKING ERROR
Q520 RIPPLE FELTER
IC305 AGC AMP
IC305 TA75W01FU
IC304 AGC SW
Q301 MUTE
IC306 AGC AMP
IC307 DIFFERENTIAL AMP
IC308 DIFFERENTIAL AMP
IC504 PIT/GROOVE SWITCH
Q502 APC MUTE
Q501 APC DRIVE
Q510 RF MODULE SW
IC505 TEMP AMP APC LPF
RV508 FOCUS BIAS
RV509 100k TEMP GUARANTEE
Q311 AGC AMP
TP304 REF
TP305
TP230
TP229
TP302
TP105 FBIAS
TP122
TP121
TP311
TP153
TP154
TP253
TP254

Note:

- All capacitors are in
  50WV or less are not
  tantalums.
- All resistors are in Ω
  specified.
- % : indicates tole
- ▬ : B+ Line
- ☐ : adjustment fo
- Voltages are taken wi
  Voltage variations ma
  tolerances.
  no mark : PB
  ( ) : REC
- Signal path.
  ⋗ : PB (ANALOG O
  ⋙ : REC (ANALOG



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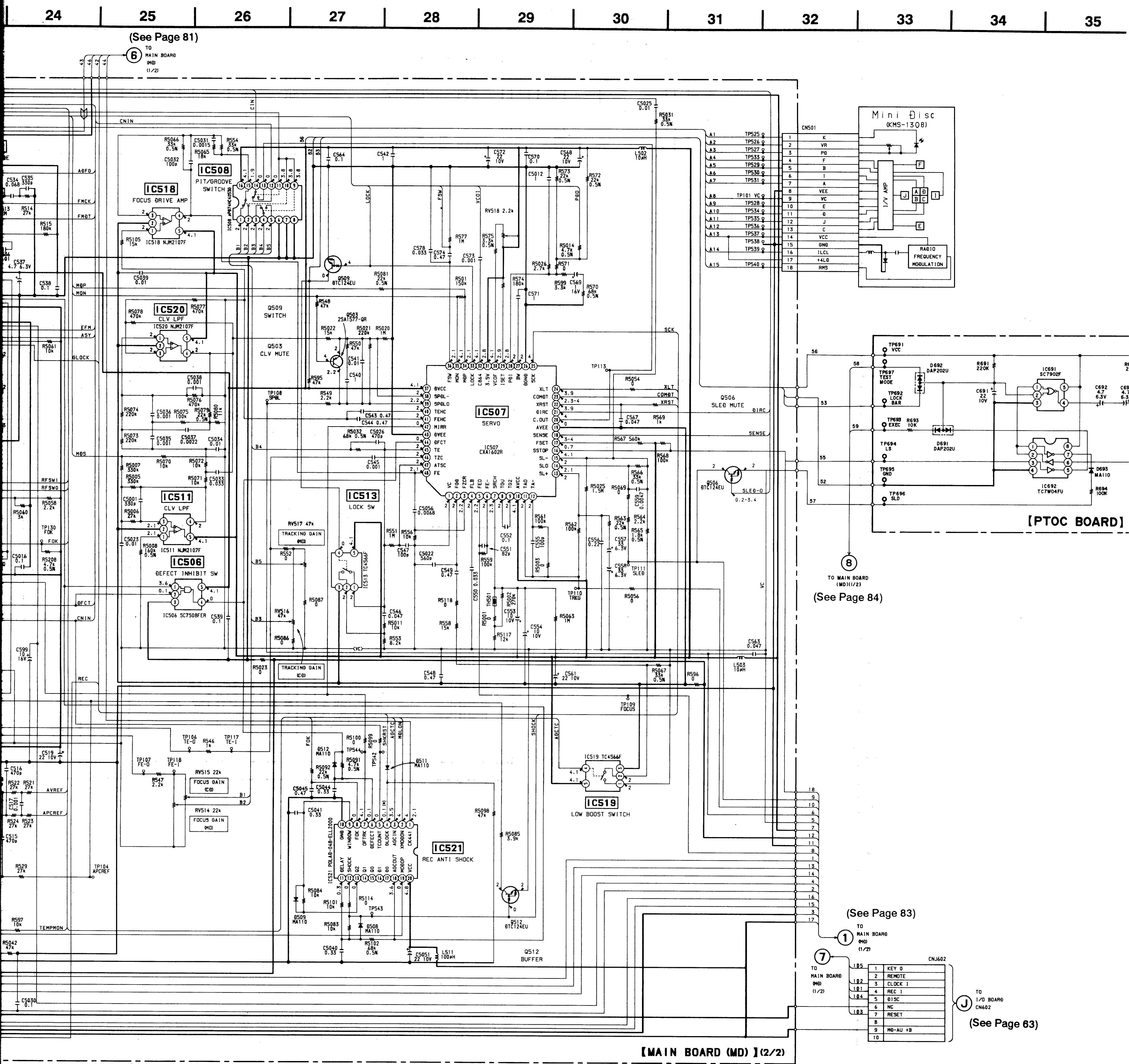
ee Page 82)
(See Page 83)
(See Page 81)
TO MAIN BOARD
IC503 PIT/GROOVE SWITCH
IC502 ADIP DECODE
IC502 CXA1380N
IC508 PIT/GROOVE SWITCH
IC518 FOCUS DRIVE AMP
IC520 CLV LPF
IC522 PIT GROOVE SW
IC516 ASY SW
IC517 ASY SW
IC501 RF AMP
IC501 CXA1381R
IC511 CLV LPF
IC506 DEFECT INHIBIT SW
IC513 LOCK SW
IC507 SERVO
IC507 CXA1602R
IC505 TEMP AMP APC LPF
IC505 TA75W01FU
IC504 PIT/GROOVE SWITCH
IC521 REC ANTI SHOCK
Q509 SWITCH
Q503 CLV MUTE
Q502 APC MUTE
Q501 APC DRIVE
Q510 RF MODULE SW
Q512 BUFFER
RV510 FOCUS OFFSET (GROOVE)
RV512 FOK OFFSET (PIT)
RV511 FOCUS OFFSET (PIT)
RV513 FOK OFFSET (GROOVE)
MO LIGHT POWER
CD READ POWER
RV501 4.7k TRACKING ERROR
RV502 4.7k TRACKING ERROR
RV503 10k TRACKING ERROR
RV504 10k TRACKING ERROR
RV508 22k FOCUS BIAS
RV509 100k TEMP GUARANTEE
RV517 47k TRACKING GAIN (MO)
TRACKING GAIN (CD)
RV515 22k FOCUS GAIN (CD)
RV514 22k FOCUS GAIN (MO)
ADFG
FMCK
FMDT
MDP
MON
EFM
ASY
LOCK
MOS
RFSW1
RFSW0
DFCT
CNIN
REC
AVREF
APCREF
TEMPMON

Note:

- All capacitors are in μF unless otherwise noted. pF:μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- % : indicates tolerance.
- ━━ : B+ Line
- ☐ : adjustment for repair.
- Voltages are taken with a VOM (Input impedance 10Ω). Voltage variations may be noted due to normal production tolerances.
  no mark : PB
  ( ) : REC
- Signal path.
  ⟩ : PB (ANALOG OUT) ⟫ : PB (DIGITAL OUT)
  ⟩ : REC (ANALOG IN) ⟫ : REC (DIGITAL IN)



24
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34
35
TO MAIN BOARD (MD) (1/2)
IC518 FOCUS DRIVE AMP
IC508 PIT/GROOVE SWITCH
IC520 CLV LPF
Q509 SWITCH
Q503 CLV MUTE
IC511 CLV LPF
IC506 DEFECT INHIBIT SW
IC513 LOCK SW
IC507 SERVO CXA1602R
Q506 SLED MUTE
TRACKING GAIN (MD)
TRACKING GAIN (CD)
FOCUS GAIN (CD)
FOCUS GAIN (MD)
IC519 LOW BOOST SWITCH
IC521 REC ANTI SHOCK
Q512 BUFFER
Mini Disc (KMS-130B)
I/V AMP
RADIO FREQUENCY MODULATION
CN501
[PTOC BOARD]
TO MAIN BOARD (MD)(1/2)
TO I/O BOARD CN602
CNJ602
KEY 0
REMOTE
CLOCK I
REC I
DISC
NC
RESET
MG-AU +B
[MAIN BOARD (MD)] (2/2)

(See Page 81)

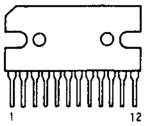
(See Page 84)

(See Page 83)

(See Page 63)

4-15. SEMICONDUCTOR LEAD LAYOUTS

BA3924-V3



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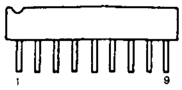

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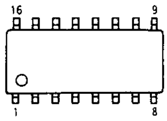
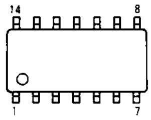
CD4052BCM



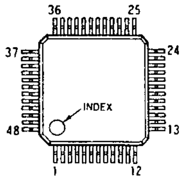
(TOP VIEW)

CD4066BCM
TC74HC03AF-TP1



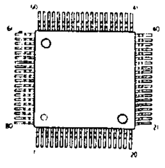
(TOP VIEW)

CXA1381R

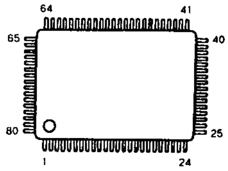

36
25
37
24
INDEX
48
13
1
12

(TOP VIEW)

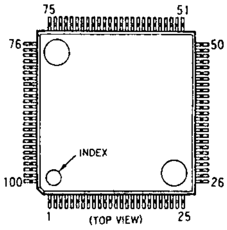
CXD2525R



CXD2526Q
CX84120-CFDX100
CXP84120-010Q

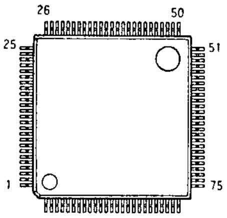

64
41
65
40
80
25
1
24

CXD2527R


75
51
76
50
INDEX
100
26
1
25

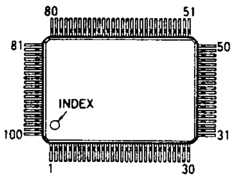
(TOP VIEW)

CXD2527R-1


26
50
25
51
1
75
100
76

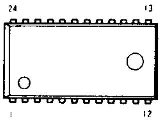
(TOP VIEW)

CXP81740-603Q

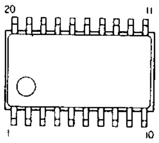

80
51
81
50
INDEX
100
31
1
30

(TOP VIEW)

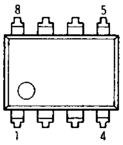
LA1831



LC7216M
MC13020-MR

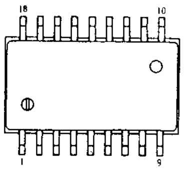


M5216FP
M5218AFP
NJM2100D
NJM2100M



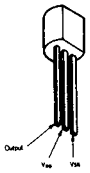
(TOP VIEW)

RF5C62

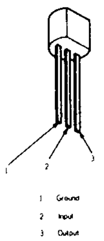


MARKING SIDE VIEW

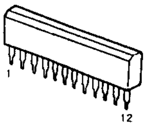
S-80730AN


Output
VDD
VSS

S-81250HG

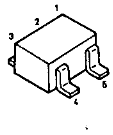

1
2
3
1 Ground
2 Input
3 Output

TA8176SN

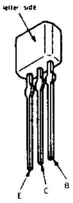


(Marking side view)

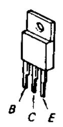
TC7WU04F



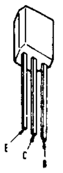
2SA1175
2SC2785
DTA114YS


letter side
E
C
B

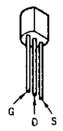
2SB1370



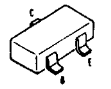
2SC4048



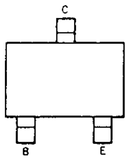
2SK679A



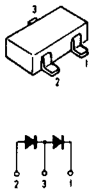
DTA114YK
DTC114YK
DTC114YU
DTC343TK



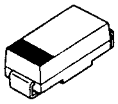
UN2216
UN221E



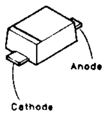
1SS226



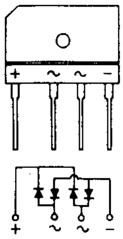
EC10QS-10



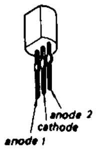
MA8068


Anode
Cathode

RBV-602-01



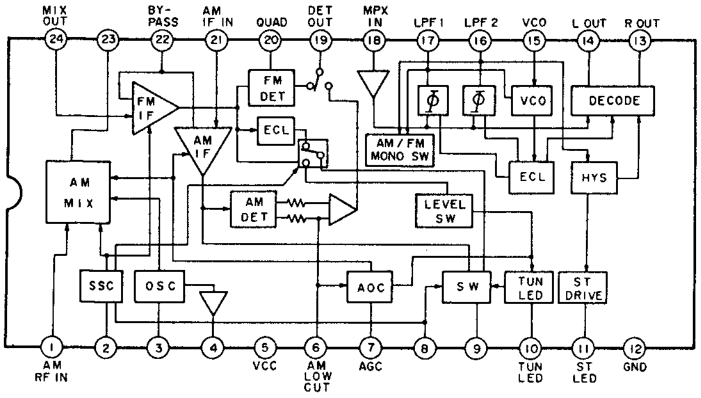
SVC342L-V


anode 2
cathode
anode 1

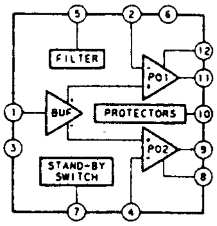
4-16. IC BLOCK DIAGRAMS

—MAIN SECTION —

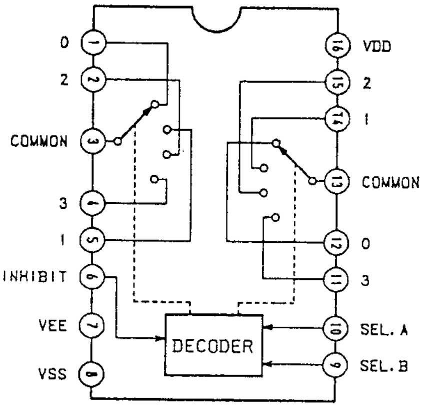
• RADIO BOARD IC1 TA2012N


MIX OUT
BY-PASS
AM IF IN
QUAD
DET OUT
MPX IN
LPF 1
LPF 2
VCO
L OUT
R OUT
FM IF
FM DET
ECL
AM IF
AM MIX
AM DET
AM / FM MONO SW
VCO
DECODE
ECL
HYS
LEVEL SW
SSC
OSC
AOC
SW
TUN LED
ST DRIVE
AM RF IN
VCC
AM LOW CUT
AGC
TUN LED
ST LED
GND
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24

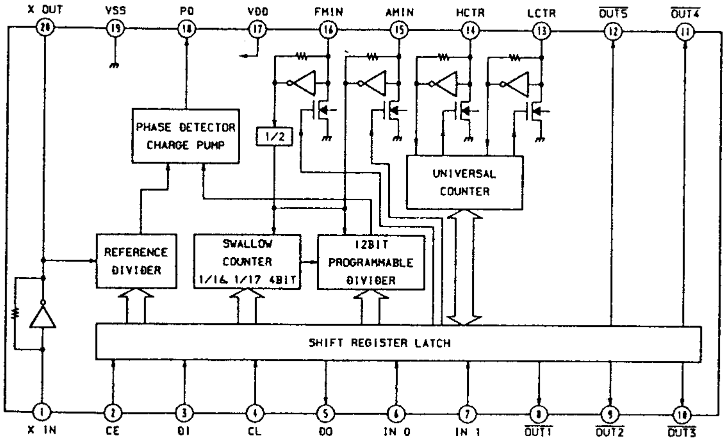
• MAIN BOARD IC101, 201 uPC2501H-1


FILTER
PO1
BUF
PROTECTORS
PO2
STAND-BY SWITCH
1
2
3
4
5
6
7
8
9
10
11
12

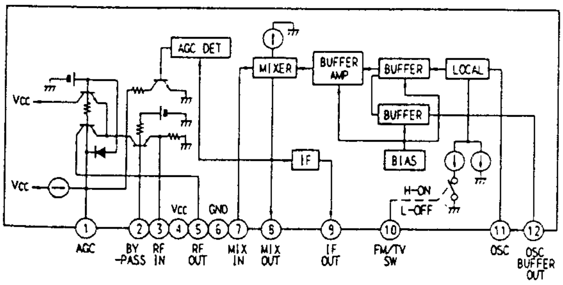
• MAIN BOARD IC301 CD4052BCM


0
2
COMMON
3
1
INHIBIT
VEE
VSS
VDD
2
1
COMMON
0
3
SEL. A
SEL. B
DECODER
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

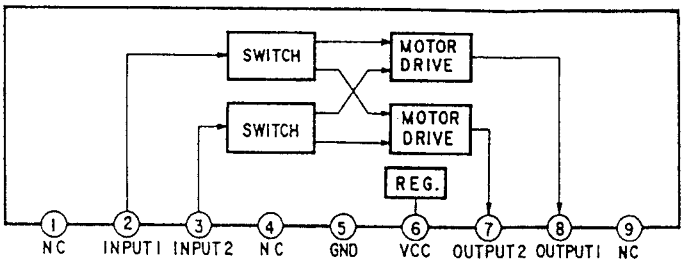
• RADIO BOARD IC2 LC7216M-TP-T1


X OUT
VSS
PD
VDD
FMIN
AMIN
HCTR
LCTR
OUT5
OUT4
PHASE DETECTOR CHARGE PUMP
1/2
UNIVERSAL COUNTER
REFERENCE DIVIDER
SWALLOW COUNTER 1/16, 1/17 4BIT
12BIT PROGRAMMABLE DIVIDER
SHIFT REGISTER LATCH
X IN
CE
DI
CL
DO
IN 0
IN 1
OUT1
OUT2
OUT3
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20

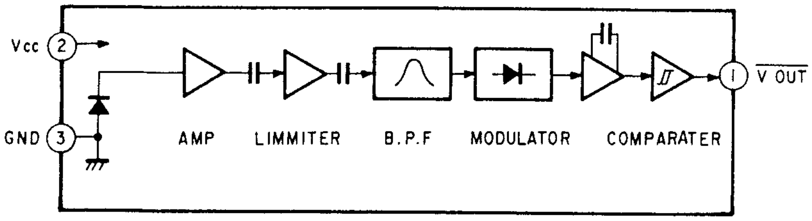
• RADIO BOARD IC3 TA8176SN


AGC DET
MIXER
BUFFER AMP
BUFFER
LOCAL
BUFFER
IF
BIAS
H-ON
L-OFF
Vcc
Vcc
Vcc
GND
AGC
BY-PASS
RF IN
RF OUT
MIX IN
MIX OUT
IF OUT
FM/TV SW
OSC
OSC BUFFER OUT
1
2
3
4
5
6
7
8
9
10
11
12

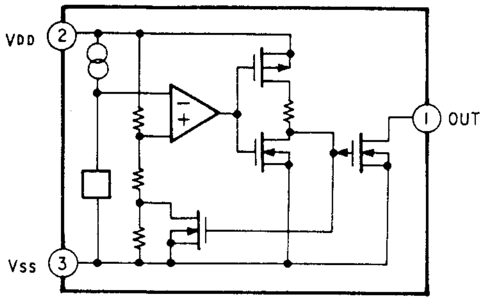
• VOL BOARD IC401 BA6208


SWITCH
SWITCH
MOTOR DRIVE
MOTOR DRIVE
REG.
NC
INPUT1
INPUT2
NC
GND
VCC
OUTPUT2
OUTPUT1
NC
1
2
3
4
5
6
7
8
9

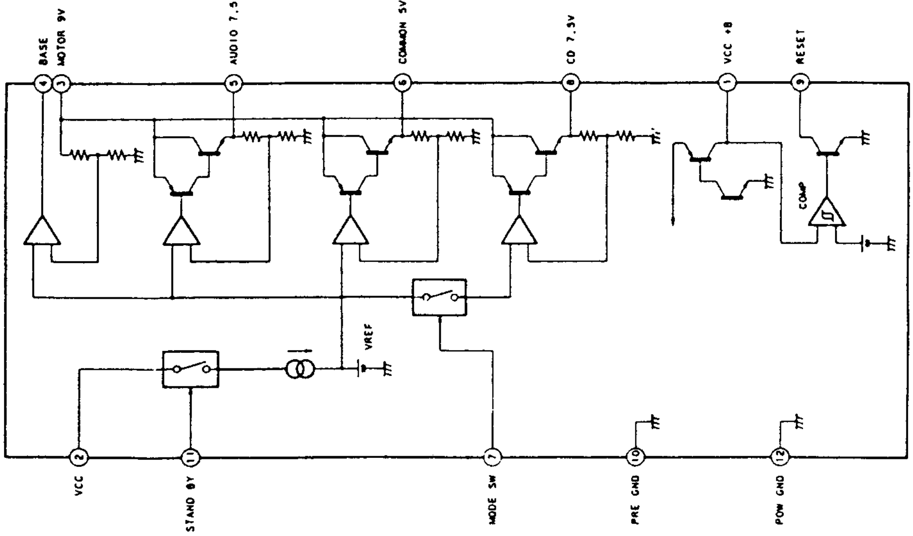
• CONTROL BOARD IC501 GP1U58XB


Vcc
2
GND
3
AMP
LIMMITER
B.P.F
MODULATOR
COMPARATER
1
V OUT

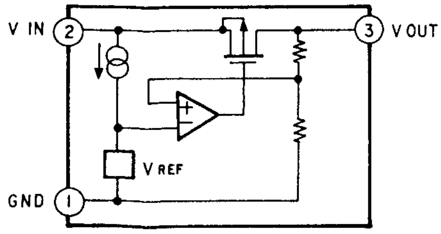
• MAIN BOARD IC802 S-80730AL-Z


VDD
2
Vss
3
1
OUT

• MAIN BOARD IC901 BA3924-V3

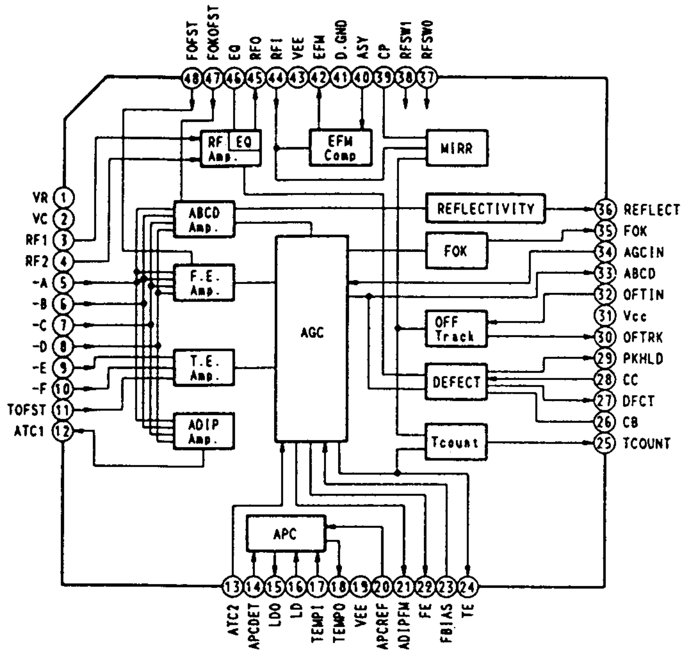

BASE
MOTOR 9V
AUDIO 7.5V
COMMON 5V
CD 7.5V
VCC +B
RESET
4
3
5
6
8
1
9
COMP
VREF
2
11
7
10
12
VCC
STAND BY
MODE SW
PRE GND
POW GND

• MAIN BOARD IC902, 903 S-81250HG


V IN
2
3
V OUT
V REF
GND
1

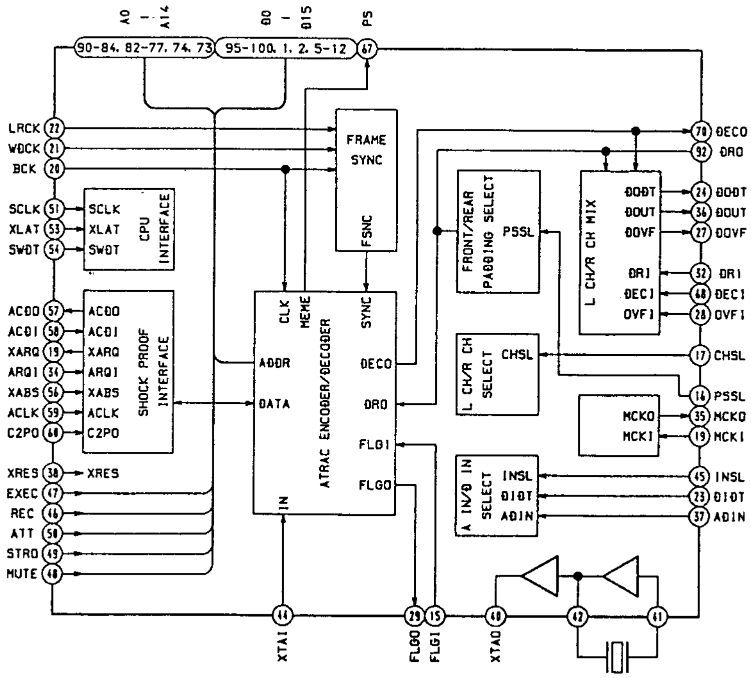
— MD BLOCK —

• MAIN BOARD IC501 CXA1381R



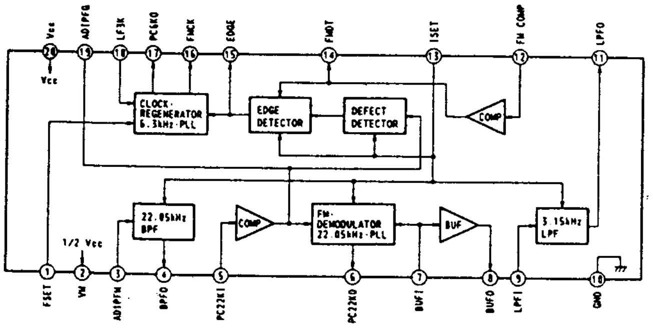
FOFST
FOKOFST
EQ
RFO
RFI
VEE
EFM
D.GND
ASY
CP
RFSW1
RFSW0
RF Amp.
EQ
EFM Comp
MIRR
REFLECTIVITY
FOK
ABCD Amp.
F.E. Amp.
T.E. Amp.
ADIP Amp.
AGC
OFF Track
DEFECT
Tcount
APC
VR
VC
RF1
RF2
-A
-B
-C
-D
-E
-F
TOFST
ATC1
REFLECT
FOK
AGCIN
ABCD
OFTIN
Vcc
OFTRK
PKHLD
CC
DFCT
CB
TCOUNT
ATC2
APCDET
LDO
LD
TEMPI
TEMPO
VEE
APCREF
ADIPFM
FE
FBIAS
TE

• MAIN BOARD IC603 CXD2527R-1



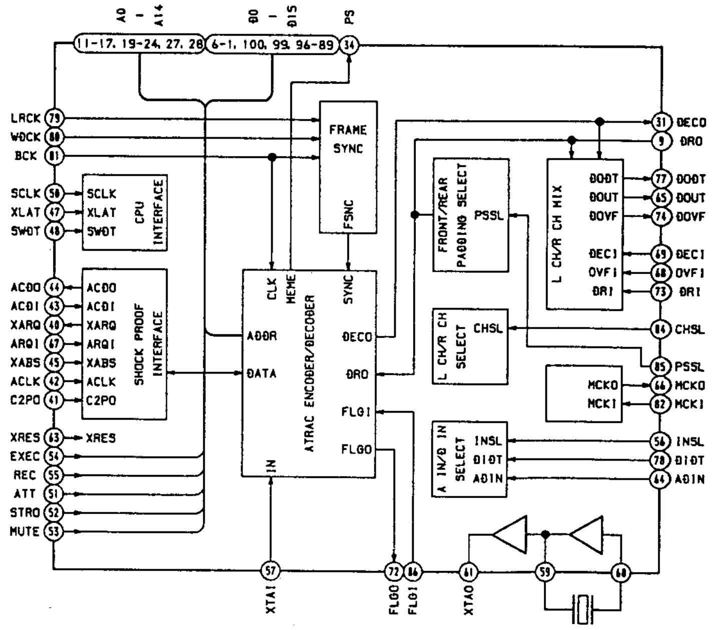
A0 - A14
D0 - D15
PS
90-84, 82-77, 74, 73
95-100, 1, 2, 5-12
LRCK
WDCK
BCK
SCLK
XLAT
SWDT
CPU INTERFACE
ACDO
ACDI
XARQ
ARQI
XABS
ACLK
C2PO
SHOCK PROOF INTERFACE
XRES
EXEC
REC
ATT
STRO
MUTE
FRAME SYNC
FSNC
CLK
MEME
SYNC
ADDR
DATA
ATRAC ENCODER/DECODER
DECO
DRO
FLGI
FLGO
IN
FRONT/REAR PADDING SELECT
PSSL
L CH/R CH MIX
DODT
DOUT
DOVF
DRI
DECI
OVFI
L CH/R CH SELECT
CHSL
MCKO
MCKI
A IN/D IN SELECT
INSL
DIDT
ADIN
DECO
DRO
DODT
DOUT
DOVF
DRI
DECI
OVFI
CHSL
PSSL
MCKO
MCKI
INSL
DIDT
ADIN
XTAI
FLGO
FLGI
XTAO

• MAIN BOARD IC502 CXA1380M



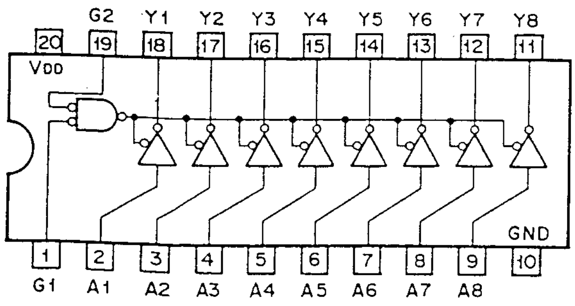
Vcc
ADIPFG
LF3K
PCGKO
FNCK
EDGE
FMOT
ISET
FM COMP
LPFO
Vcc
CLOCK REGENERATOR 6.3kHz PLL
EDGE DETECTOR
DEFECT DETECTOR
COMP
22.05kHz BPF
COMP
FM-DEMODULATOR 22.05kHz PLL
BUF
3.15kHz LPF
1/2 Vcc
FSET
VM
ADIPFM
BPFO
PC22KI
PC22KO
BUFI
BUFO
LPFI
GND

• MAIN BOARD IC604 CXD2527R



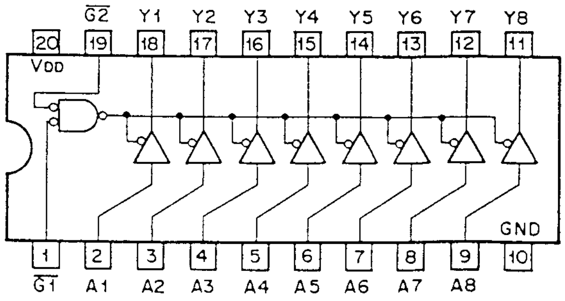
A0 - A14
D0 - D15
PS
11-17, 19-24, 27, 28
6-1, 100, 99, 96-89
LRCK
WDCK
BCK
SCLK
XLAT
SWDT
CPU INTERFACE
ACDO
ACDI
XARQ
ARQI
XABS
ACLK
C2PO
SHOCK PROOF INTERFACE
XRES
EXEC
REC
ATT
STRO
MUTE
FRAME SYNC
FSNC
CLK
MEME
SYNC
ADDR
DATA
ATRAC ENCODER/DECODER
DECO
DRO
FLGI
FLGO
IN
FRONT/REAR PADDING SELECT
PSSL
L CH/R CH MIX
DODT
DOUT
DOVF
DECI
OVFI
DRI
L CH/R CH SELECT
CHSL
MCKO
MCKI
A IN/D IN SELECT
INSL
DIDT
ADIN
DECO
DRO
DODT
DOUT
DOVF
DECI
OVFI
DRI
CHSL
PSSL
MCKO
MCKI
INSL
DIDT
ADIN
XTAI
FLGO
FLGI
XTAO

• CONTROL BOARD IC901 74ACT540



G2
Y1
Y2
Y3
Y4
Y5
Y6
Y7
Y8
20
19
18
17
16
15
14
13
12
11
VDD
GND
1
2
3
4
5
6
7
8
9
10
G1
A1
A2
A3
A4
A5
A6
A7
A8

• CONTROL BOARD IC902 74ACT541



$\overline{G2}$
Y1
Y2
Y3
Y4
Y5
Y6
Y7
Y8
20
19
18
17
16
15
14
13
12
11
VDD
GND
1
2
3
4
5
6
7
8
9
10
$\overline{G1}$
A1
A2
A3
A4
A5
A6
A7
A8

SECTION 5
EXPLODED VIEWS

NOTE:

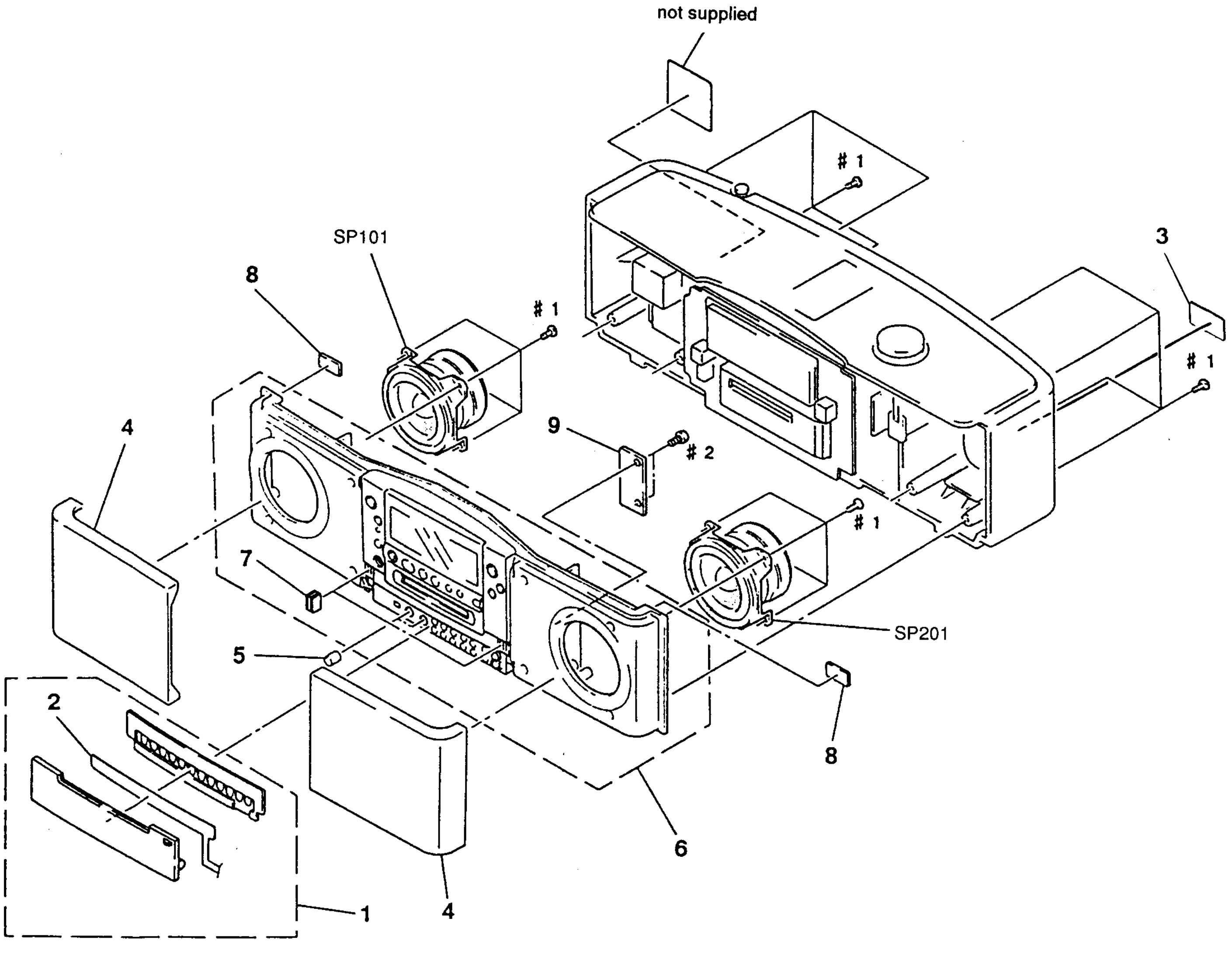
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts color Cabinet's color
- G: German model
- IT: Italian model

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of this parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

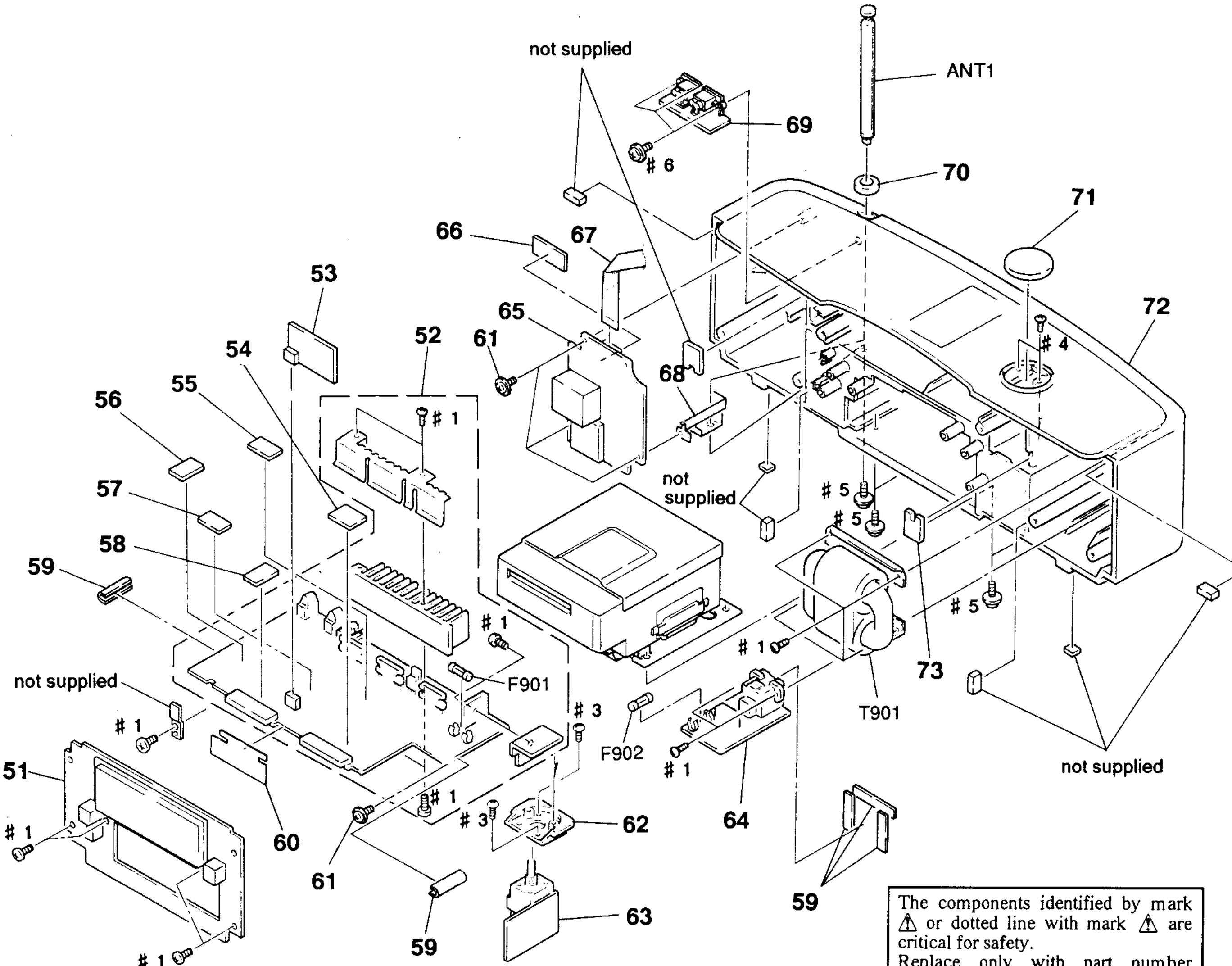
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

5-1. FRONT CABINET ASSEMBLY



Ref. No.	Part No.	Description	Remark
1	A-3263-773-A	LID ASSY, CONTROL	
2	1-466-988-11	SWITCH UNIT	
* 3	3-383-181-01	LABEL (POWER)	
4	X-3366-289-1	FRAME ASSY, SPEAKER	
5	3-385-984-01	KNOB (BASS TREBLE)	
6	X-3366-907-1	CABINET ASSY, FRONT (AEP, UK, G, IT)	
6	X-3367-192-1	CABINET ASSY, FRONT (US, Canadian)	
7	1-452-419-21	MAGNET	
8	3-831-441-XX	CUSHION, SPEAKER	
* 9	1-647-781-21	RELAY BOARD	
SP101	1-504-415-11	SPEAKER (L-CH) (AEP, UK, G, IT)	
SP101	1-544-653-11	SPEAKER (8CM) (L-CH) (US, Canadian)	
SP201	1-504-415-11	SPEAKER (R-CH) (AEP, UK, G, IT)	
SP201	1-544-653-11	SPEAKER (8CM) (R-CH) (US, Canadian)	

5-2. REAR CABINET ASSEMBLY



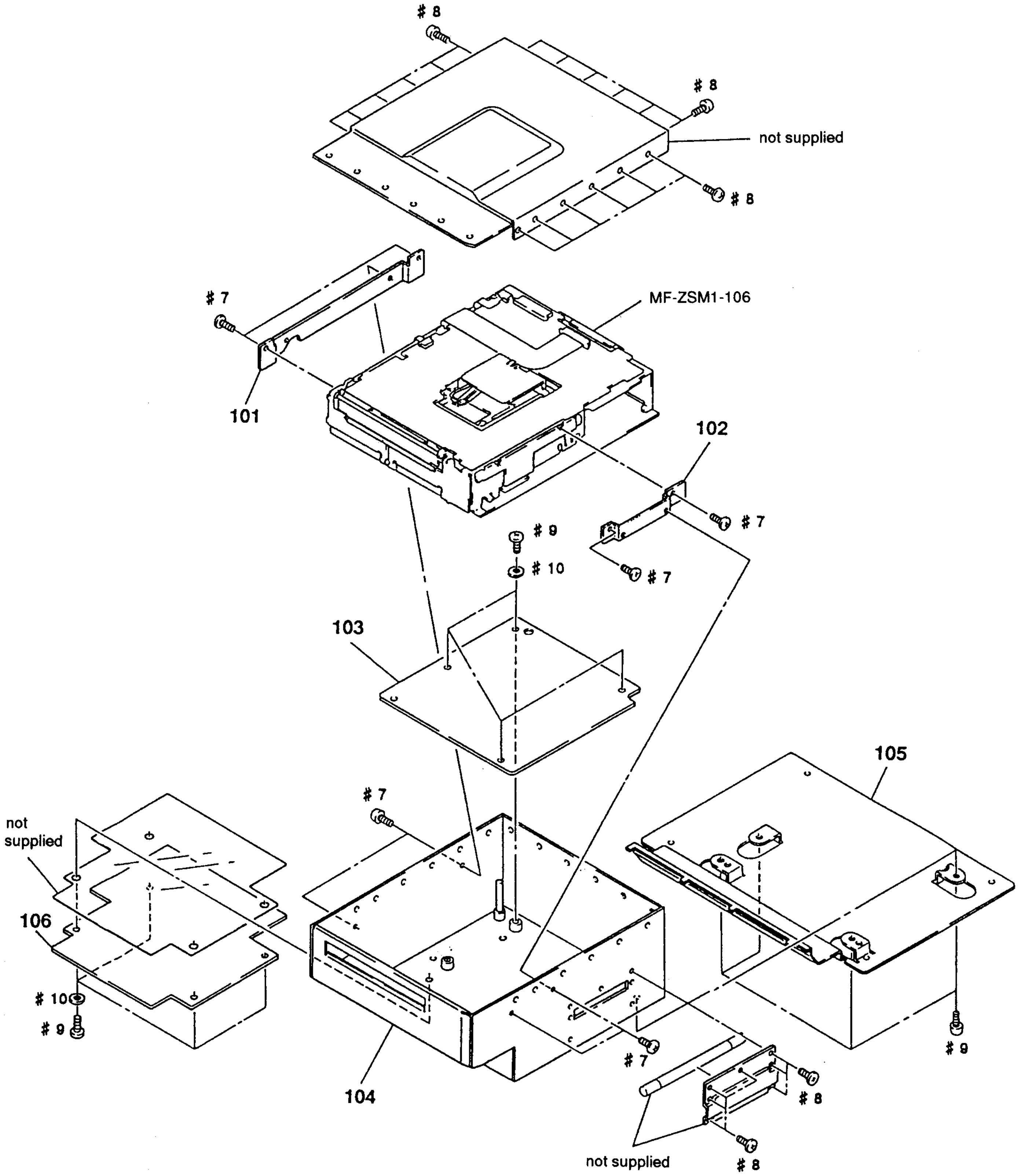
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
* 51	A-3264-587-A	CONTROL BOARD, COMPLETE (AEP, UK, G, IT)	
* 51	A-3264-623-A	CONTROL BOARD, COMPLETE (US, Canadian)	
* 52	A-3264-584-A	MAIN BOARD, COMPLETE (AEP, G)	
* 52	A-3264-618-A	MAIN BOARD, COMPLETE (US, Canadian)	
* 52	A-3264-619-A	MAIN BOARD, COMPLETE (UK)	
* 52	A-3264-621-A	MAIN BOARD, COMPLETE (IT)	
* 53	A-3264-585-A	DECODER BOARD, COMPLETE	
* 54	1-648-325-11	POWER SW BOARD	
* 55	1-648-204-11	AUDIO SWITCH-2 BOARD	
* 56	1-648-204-11	AUDIO SWITCH-1 BOARD	
* 57	1-648-326-11	DIGITAL IN BOARD	
* 58	1-648-327-11	MD POWER BOARD	
59	3-831-441-XX	CUSHION, SPEAKER	
* 60	3-388-953-01	SHEET (FFC), INSULATING	
* 61	4-917-583-21	BRACKET, YOKE	
* 62	3-375-850-01	COVER, VOL	
* 63	1-649-640-11	VOLUME BOARD	
* 64	1-649-096-11	INLET BOARD (US, Canadian)	
* 64	1-649-639-11	INLET BOARD (AEP, UK, G, IT)	

Ref. No.	Part No.	Description	Remark
* 65	A-3264-583-A	RADIO BOARD, COMPLETE (AEP, UK, G, IT)	
* 65	A-3264-785-A	RADIO BOARD, COMPLETE (US, Canadian)	
* 66	1-647-788-21	ANTENNA TERMINAL BOARD	
67	1-751-129-11	WIRE, PARALLEL (FFC) (17 CORE)	
* 68	3-377-918-01	TERMINAL BOARD, ANTENNA	
* 69	1-647-915-21	LOOP ANTENNA BOARD	
70	3-375-853-01	PACKING, ANTENNA	
71	4-938-309-21	KNOB (VOL)	
72	X-3366-906-1	CABINET ASSY, REAR (AEP, UK, G, IT)	
72	X-3367-208-1	CABINET ASSY, REAR (US, Canadian)	
* 73	3-375-852-01	PACKING, LEAD	
ANT1	1-501-530-11	ANTENNA, TELESCOPIC	
⚠F901	1-576-193-11	FUSE (6. 3A) (US, Canadian)	
⚠F901	1-532-506-51	FUSE (T6. 3A) (AEP, UK, G, IT)	
⚠F902	1-576-104-11	FUSE (2A) (US, Canadian)	
⚠T901	1-423-772-11	TRANSFORMER, POWER (US, Canadian)	
⚠T901	1-697-020-11	TRANSFORMER, POWER (UK)	
⚠T901	1-697-021-11	TRANSFORMER, POWER (AEP, G, IT)	

5-3. MD BLOCK ASSEMBLY



# 8
# 8
not supplied
# 8
# 7
MF-ZSM1-106
101
102
# 9
# 10
# 7
# 7
103
105
# 7
not
supplied
106
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104
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not supplied
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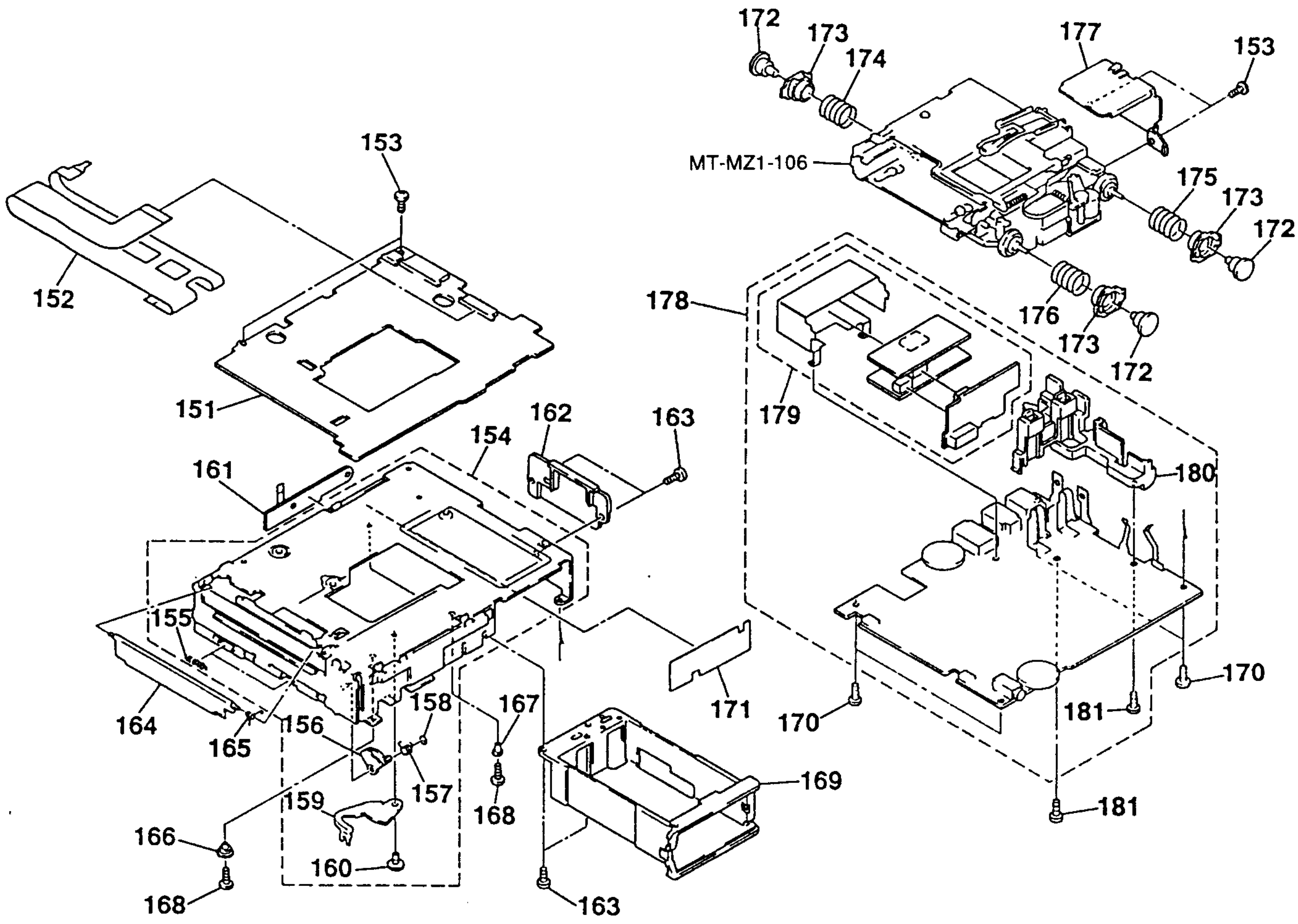
Ref. No.	Part No.	Description	Remark
* 101	3-385-985-01	HOLDER (L), MD	
* 102	3-385-986-01	HOLDER (R), MD	
* 103	A-3264-200-A	I O BOARD, COMPLETE	
* 104	X-3366-119-1	CASE ASSY, SHIELD	
* 105	3-386-016-01	BRACKET	
* 106	A-3264-581-A	FILTER BOARD, COMPLETE	

5-4. MECHANISM CHASSIS ASSEMBLY (MF-ZSM1-106)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MT-MZ1-106
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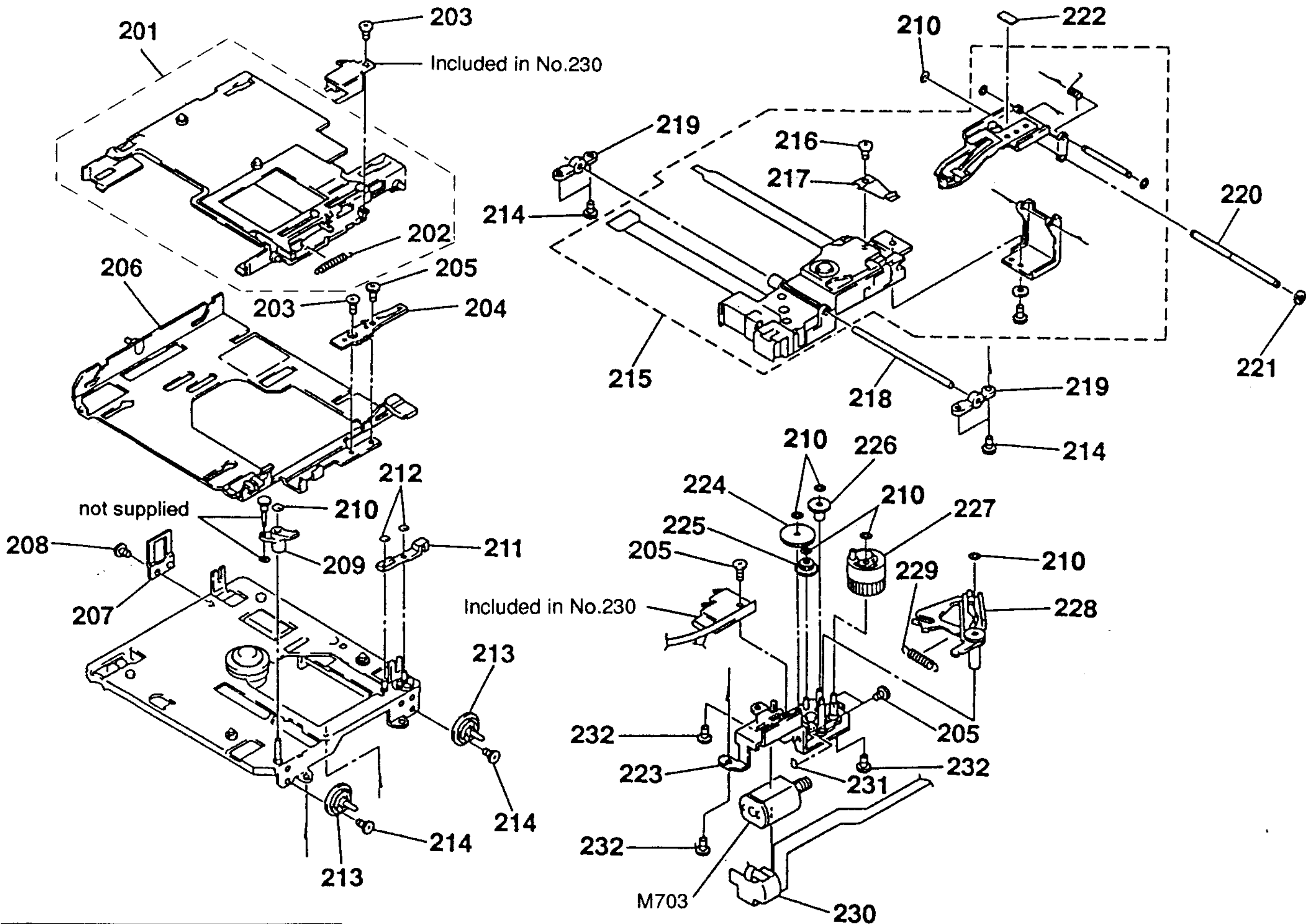
Ref. No.	Part No.	Description	Remark
* 151	A-3275-715-A	CONTROL BOARD, COMPLETE (MD)	
152	1-645-919-11	RELAY (A) FLEXIBLE BOARD	
153	4-955-841-01	SCREW	
154	X-4943-980-2	CHASSIS ASSY, SUB	
155	4-955-450-01	SPRING, TENSION	
156	4-955-526-01	LEVER (SHUTTER)	
157	4-955-528-01	SPRING (SHUTTER RD), TORSION	
158	3-348-953-11	WASHER	
159	4-955-542-01	LEVER (S OPEN)	
160	4-955-544-01	SCREW (M1.7), STEP	
161	1-466-923-11	SWITCH UNIT (MIC)	
162	4-955-541-01	REINFORCEMENT (B)	
163	3-704-244-34	SCREW (P1.7X2.5)	
164	4-955-515-01	SHUTTER (EJECT)	
165	4-955-527-01	SPRING (SHUTTER E), TORSION	
166	4-957-308-02	RING, REINFORCEMENT	
167	4-957-267-02	COLLAR, REINFORCEMENT	
168	3-704-244-84	SCREW (P1.7X5.0)	
169	4-955-529-01	CASE (BATTERY)	
170	2-134-636-41	SCREW (M1.7X4.0)	
171	4-957-572-01	SHEET (E-E), INSULATING	
172	4-955-511-01	DAMPER	
173	4-955-516-01	HOLDER (DAMPER)	
174	4-955-538-01	SPRING (MD1), COMPRESSION (BLACK)	
175	4-955-539-01	SPRING (MD2), COMPRESSION (WHITE)	
176	4-955-540-01	SPRING (MD3), COMPRESSION (BLUE)	
* 177	4-956-096-01	COVER (O H)	
* 178	A-3276-055-A	MAIN BOARD, COMPLETE (MD)	
* 179	A-3275-782-A	POWER BOARD, COMPLETE (MD)	
180	4-955-523-03	HOLDER (TERMINAL)	
181	2-123-861-01	SCREW, TAPPING, P1.7X3	

5-5. MECHANISM DECK ASSEMBLY-1
(MT-MZ1-106)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Included in No.230
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Included in No.230
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M703
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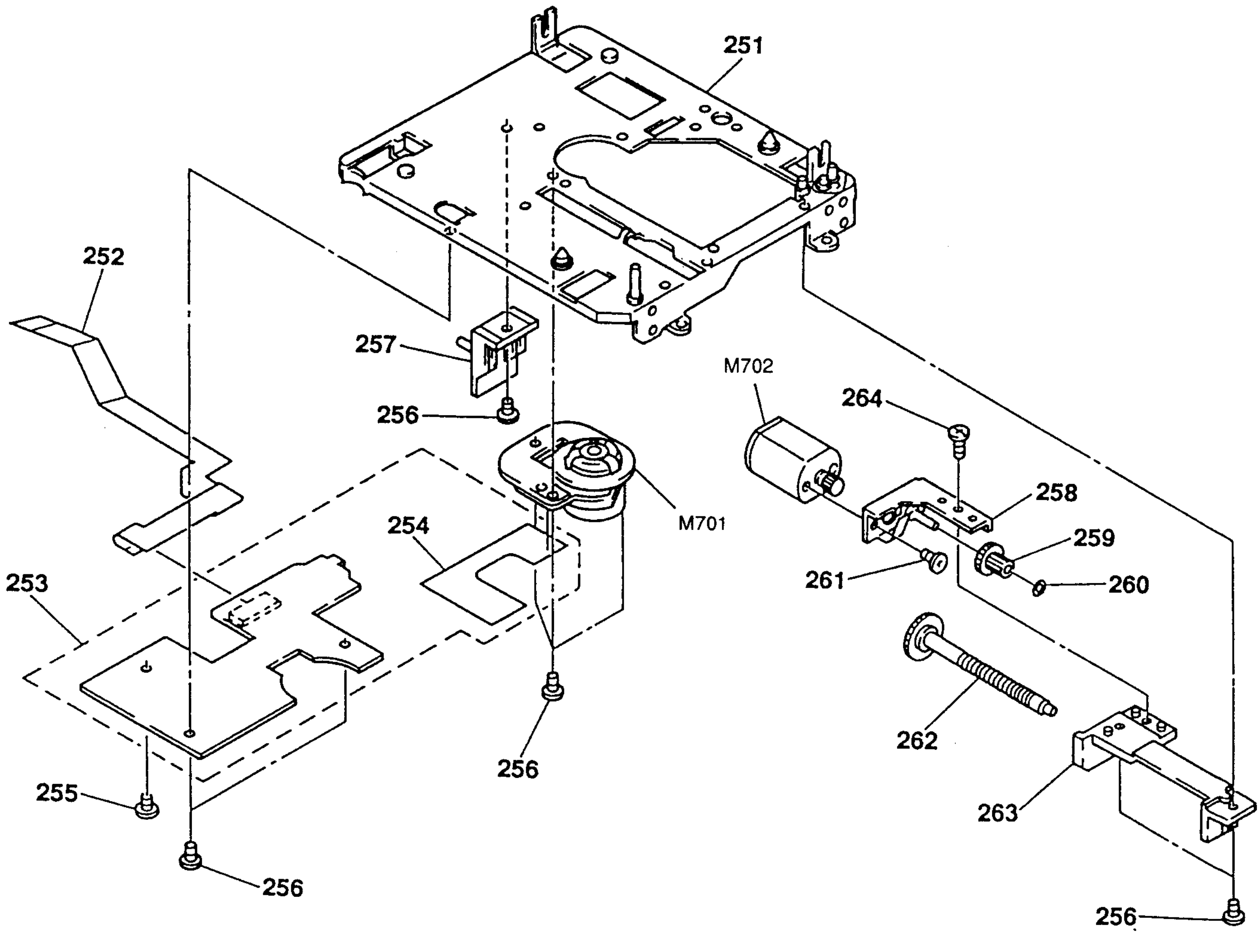
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
201	X-4943-091-1	HOLDER ASSY	
202	3-385-103-01	SPRING (LOCK), TENSION	
203	3-363-220-21	SCREW (M1.4X1.8)	
204	4-955-498-01	LEVER (RACK)	
205	3-704-197-02	SCREW (M1.4X1.6), LOCKING	
206	X-4943-088-1	SLIDER ASSY, MAIN	
207	4-955-520-01	STOPPER, SHAFT	
208	4-955-841-01	SCREW	
209	4-955-500-01	LEVER (POSITIONING)	
210	3-578-242-11	WASHER	
211	4-955-499-01	SLIDER (RP)	
212	3-338-645-31	WASHER (0.8-2.5)	
213	X-4943-083-3	HOLDER (B)ASSY, VIBRATION PROOF	
214	4-955-841-21	SCREW	
⚠215	A-3263-173-A	OP BLOCK ASSY (KMS-130B)	
216	3-704-197-21	SCREW (M1.4X2.5), LOCKING	
217	4-955-517-01	SPRING, FEED	

Ref. No.	Part No.	Description	Remark
218	4-959-632-01	SHAFT (OP), GUIDE	
219	4-955-505-01	RETAINER, SHAFT, GUIDE	
220	4-955-510-01	SHAFT (REC)	
221	3-315-384-31	WASHER, STOPPER	
222	3-831-441-11	CUSHION	
223	X-4943-084-6	CHASSIS ASSY, GEAR	
224	4-955-495-01	WHEEL, WORM	
225	4-955-496-01	GEAR (MIDWAY B)	
226	4-955-497-01	GEAR (MIDWAY C)	
227	X-4943-085-1	GEAR (LOADING) ASSY	
228	X-4943-089-1	LEVER (LOADING) ASSY	
229	3-385-104-01	SPRING (LIMITER), TENSION	
230	1-466-925-11	SWITCH UNIT (DETECTION)	
* 231	3-317-577-01	SPACER (Z)	
232	3-704-243-11	SCREW (P1.7X2.0)	
M703	1-698-035-11	MOTOR, DC (LOADING)	

5-6. MECHANISM DECK ASSEMBLY-2
(MT-MZ1-106)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M702
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M701
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Ref. No.	Part No.	Description	Remark
251	X-4943-080-1	CHASSIS ASSY	
252	1-649-066-11	RELAY (B) FLEXIBLE BOARD	
253	A-3275-714-A	CLV BOARD, COMPLETE	
254	1-645-921-11	CLV FLEXIBLE BOARD	
255	2-134-636-21	SCREW (M1.7X2.5)	
256	4-955-841-21	SCREW	
257	X-4943-082-3	HOLDER (A)ASSY, VIBRATION PROOF	
258	X-4943-087-3	HOLDER ASSY, MOTOR	
259	4-955-518-01	GEAR (B)	
260	3-325-394-11	WASHER, STOPPER	
261	3-704-197-02	SCREW (M1.4X1.6), LOCKING	
262	A-3263-172-A	SCREW BLOCK ASSY, LEAD	
263	4-955-519-02	BRACKET (A)	
264	2-123-861-01	SCREW, TAPPING, P1.7X3	
M701	1-698-007-12	MOTOR (SPINDLE)	
M702	1-698-008-11	MOTOR, DC (SLED)	

ANTENNA TERMINAL
AUDIO SWITCH-1
AUDIO SWITCH-2
CONTROL

SECTION 6
ELECTRICAL PARTS LIST

NOTE:

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms
  METAL: Metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F : nonflammable
- Color Indication of Appearance Parts Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ Parts color ↑ Cabinet's color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- SEMICONDUCTORS
  In each case, u: μ, for example:
  uA...: μA..., uPA...: μPA...,
  uPB...: μPB..., uPC...: μPC...,
  uPD...: μPD...
- CAPACITORS
  uF : μF
- COILS
  uH : μH
- Hardware (# mark) list is given in the last of this parts list.
- G: German model
- IT: Italian model

Ref. No.	Part No.	Description	Remark
*	1-647-788-21	ANTENNA TERMINAL BOARD, COMPLETE	
		********************************	
		< CONNECTOR >	
* CN2	1-750-510-11	PIN, CONNECTOR (PC BOARD)	
* CN3	1-750-510-11	PIN, CONNECTOR (PC BOARD)	
* CN5	1-564-718-11	PIN, CONNECTOR (SMALL TYPE) 2P	
		< COIL >	
L9	1-408-646-11	COIL (ANT)	
******	************	***	******
*	1-648-204-11	AUDIO SWITCH-1 BOARD	
		********************	
		< TRANSISTOR >	
Q309	8-729-106-60	TRANSISTOR 2SB1115A	
Q310	8-729-900-52	TRANSISTOR DTC114YK	
		< RESISTOR >	
R332	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R333	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
******	************	***	******
*	1-648-204-11	AUDIO SWITCH-2 BOARD	
		********************	
		< TRANSISTOR >	
Q910	8-729-106-60	TRANSISTOR 2SB1115A	
Q911	8-729-900-52	TRANSISTOR DTC114YK	
		< RESISTOR >	
R924	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R925	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
******	************	***	******

Ref. No.	Part No.	Description	Remark
*	A-3264-587-A	CONTROL BOARD, COMPLETE (AEP, UK, G, IT)	
		************************************	
*	A-3264-623-A	CONTROL BOARD, COMPLETE (US, Canadian)	
		************************************	
	7-685-861-01	SCREW +BVTT 2.6X5 (S)	
		< CAPACITOR >	
C151	1-126-044-11	ELECT 1uF 20% 50V	
C152	1-130-481-00	MYLAR 0.0068uF 5% 50V	
C153	1-130-481-00	MYLAR 0.0068uF 5% 50V	
C154	1-130-469-00	MYLAR 680PF 5% 50V	
C155	1-162-213-31	CERAMIC 39PF 5% 50V	
C251	1-126-044-11	ELECT 1uF 20% 50V	
C252	1-130-481-00	MYLAR 0.0068uF 5% 50V	
C253	1-130-481-00	MYLAR 0.0068uF 5% 50V	
C254	1-130-469-00	MYLAR 680PF 5% 50V	
C255	1-162-213-31	CERAMIC 39PF 5% 50V	
C351	1-124-994-11	ELECT 100uF 20% 10V	
C352	1-124-994-11	ELECT 100uF 20% 10V	
C501	1-131-370-00	TANTALUM 6.8uF 10% 16V	
C502	1-161-057-00	CERAMIC 0.033uF 10% 50V	
C503	1-126-916-11	ELECT 1000uF 20% 6.3V	
C582	1-124-443-00	ELECT 100uF 20% 10V	
C587	1-161-379-00	CERAMIC 0.01uF 20% 25V	
		< CONNECTOR >	
* CN501	1-691-609-11	HOUSING, CONNECTOR (PC BOARD)	
* CN502	1-691-609-11	HOUSING, CONNECTOR (PC BOARD)	
* CN503	1-564-718-11	PIN, CONNECTOR (SMALL TYPE) 2P	
* CN504	1-564-718-11	PIN, CONNECTOR (SMALL TYPE) 2P	
* CN505	1-750-170-11	CONNECTOR, BOARD TO BOARD 16P	
		< DIODE >	
D501	8-719-027-79	DIODE BR3368S (OPERATION)	
D502	8-719-027-79	DIODE BR3368S (AEP, UK, G, IT)	
D503	8-719-027-79	DIODE BR3368S (REC)	
D504	8-719-027-79	DIODE BR3368S (REC)	
		< EL LUMINOUS ELEMENT >	
EL501	1-810-033-11	LUMINOUS ELEMENT, EL	

CONTROL

Ref. No.	Part No.	Description	Remark
		< IC >	
IC351	8-759-710-98	IC NJM2100D	
IC501	8-749-923-11	IC GP1U58XB	
		< JACK >	
J351	1-691-668-11	JACK (PHONES)	
		< COIL >	
L501	1-410-978-11	INDUCTOR 150uH	
L502	1-410-971-11	INDUCTOR 10uH	
L574	1-410-977-11	INDUCTOR 100uH	
L575	1-410-977-11	INDUCTOR 100uH	
		< LINE FILTER >	
LF501	1-402-984-11	FILTER, COMMON MODE	
		< FLUORECENT INDICATOR >	
ND501	1-809-993-11	DISPLAY PANEL, LIQUID CRYSTAL	
		< TRANSISTOR >	
Q501	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q502	8-729-902-80	TRANSISTOR DTA114YS	
Q503	8-729-806-30	TRANSISTOR 2SC4048	
Q581	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q582	8-729-119-76	TRANSISTOR 2SA1175-HFE	
		< RESISTOR >	
R151	1-249-438-11	CARBON 56K 5% 1/4W	
R152	1-249-438-11	CARBON 56K 5% 1/4W	
R153	1-249-429-11	CARBON 10K 5% 1/4W	
R154	1-249-431-11	CARBON 15K 5% 1/4W	
R155	1-249-431-11	CARBON 15K 5% 1/4W	
R251	1-249-438-11	CARBON 56K 5% 1/4W	
R252	1-249-438-11	CARBON 56K 5% 1/4W	
R253	1-249-429-11	CARBON 10K 5% 1/4W	
R254	1-249-431-11	CARBON 15K 5% 1/4W	
R255	1-249-431-11	CARBON 15K 5% 1/4W	
R351	1-249-405-11	CARBON 100 5% 1/4W	F
R352	1-249-422-11	CARBON 2.7K 5% 1/4W	F
R353	1-249-422-11	CARBON 2.7K 5% 1/4W	F
R501	1-215-412-00	METAL 430 1% 1/6W	
R502	1-215-414-00	METAL 510 1% 1/6W	
R503	1-215-416-00	METAL 620 1% 1/6W	
R504	1-215-419-00	METAL 820 1% 1/6W	
R505	1-215-421-00	METAL 1K 1% 1/6W	
R506	1-215-412-00	METAL 430 1% 1/6W	
R507	1-215-414-00	METAL 510 1% 1/6W	
R508	1-215-416-00	METAL 620 1% 1/6W	
R509	1-215-419-00	METAL 820 1% 1/6W	
R510	1-215-421-00	METAL 1K 1% 1/6W	
R511	1-215-412-00	METAL 430 1% 1/6W	
R512	1-215-414-00	METAL 510 1% 1/6W	
R513	1-215-416-00	METAL 620 1% 1/6W	
R514	1-215-419-00	METAL 820 1% 1/6W	
R515	1-215-421-00	METAL 1K 1% 1/6W	
R516	1-215-424-00	METAL 1.3K 1% 1/6W	
R517	1-215-427-00	METAL 1.8K 1% 1/6W	
R518	1-215-432-00	METAL 3K 1% 1/6W	
R519	1-215-437-00	METAL 4.7K 1% 1/6W	
R520	1-215-444-00	METAL 9.1K 1% 1/6W	
R521	1-215-455-00	METAL 27K 1% 1/6W	
R522	1-215-412-00	METAL 430 1% 1/6W	
R523	1-249-418-11	CARBON 1.2K 5% 1/4W	F
R524	1-215-417-00	METAL 680 1% 1/6W	
R525	1-249-412-11	CARBON 390 5% 1/4W	F
R526	1-249-412-11	CARBON 390 5% 1/4W	F
R527	1-249-424-11	CARBON 3.9K 5% 1/4W	F
R528	1-249-405-11	CARBON 100 5% 1/4W	F
R529	1-215-437-00	METAL 4.7K 1% 1/6W	
R530	1-215-437-00	METAL 4.7K 1% 1/6W	
R531	1-215-437-00	METAL 4.7K 1% 1/6W	
R532	1-215-437-00	METAL 4.7K 1% 1/6W	
R533	1-249-437-11	CARBON 47K 5% 1/4W	(US,Canadian)
R534	1-249-441-11	CARBON 100K 5% 1/4W	(US,Canadian)
R535	1-247-887-00	CARBON 220K 5% 1/4W	
R536	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R537	1-249-441-11	CARBON 100K 5% 1/4W	
R538	1-249-441-11	CARBON 100K 5% 1/4W	
R583	1-249-429-11	CARBON 10K 5% 1/4W	
		< VARIABLE RESISTOR >	
RV351	1-223-335-11	RES, VAR, CARBON 100K/100K (BASS)	
RV352	1-223-335-11	RES, VAR, CARBON 100K/100K (TREBLE)	
		< SWITCH >	
S501	1-572-198-11	SWITCH, KEY BOARD (POWER)	
S502	1-572-198-11	SWITCH, KEY BOARD (FUNCTION)	
S503	1-572-198-11	SWITCH, KEY BOARD (CLOCK)	
S504	1-572-198-11	SWITCH, KEY BOARD (TIMER)	
S505	1-572-198-11	SWITCH, KEY BOARD (SLEEP)	
S506	1-572-198-11	SWITCH, KEY BOARD (STANDBY)	
S507	1-572-198-11	SWITCH, KEY BOARD (RADIO BAND)	
S508	1-572-198-11	SWITCH, KEY BOARD (PRESET +)	
S509	1-572-198-11	SWITCH, KEY BOARD (PRESET -)	
S510	1-572-198-11	SWITCH, KEY BOARD (TUNING, TIME SET +)	
S511	1-572-198-11	SWITCH, KEY BOARD (TUNING, TIME SET -)	
S512	1-572-198-11	SWITCH, KEY BOARD (MODE)	

Ref. No.	Part No.	Description	Remark
S513	1-572-198-11	SWITCH, KEY BOARD (DATE)	
S514	1-572-198-11	SWITCH, KEY BOARD (▶▶)	
S515	1-572-198-11	SWITCH, KEY BOARD (◀◀)	
S516	1-572-198-11	SWITCH, KEY BOARD (DISC NAME)	
S517	1-572-198-11	SWITCH, KEY BOARD (TRACK NAME)	
S518	1-572-198-11	SWITCH, KEY BOARD (⏏)	
S519	1-572-198-11	SWITCH, KEY BOARD (⏭)	
S520	1-572-198-11	SWITCH, KEY BOARD (⏮)	
S521	1-572-198-11	SWITCH, KEY BOARD (■)	
S522	1-572-198-11	SWITCH, KEY BOARD (❚❚)	
S523	1-572-198-11	SWITCH, KEY BOARD (▷)	
S524	1-572-198-11	SWITCH, KEY BOARD (●)	
S525	1-572-198-11	SWITCH, KEY BOARD (EDIT)	
S526	1-572-198-11	SWITCH, KEY BOARD (RESET)	
S527	1-572-347-21	SWITCH, SLIDE (INPUT SELECT)	
		< TRANSFORMER >	
T501	1-450-814-11	TRANSFORMER, INVERTER	

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Ref. No.	Part No.	Description	Remark
*	A-3264-583-A	DECODER BOARD *************	
		< CONNECTOR >	
* CN701	1-569-278-11	PIN, CONNECTOR (PC BOARD) 12P	
		< DIODE >	
D701	8-719-400-18	DIODE MA152WK	
		< IC >	
IC701	8-759-242-29	IC TC74HC4514AP	
		< TRANSISTOR >	
Q701	8-729-920-31	TRANSISTOR DTC343TK	
Q702	8-729-920-31	TRANSISTOR DTC343TK	
Q703	8-729-920-31	TRANSISTOR DTC343TK	
Q704	8-729-920-31	TRANSISTOR DTC343TK	
Q705	8-729-920-31	TRANSISTOR DTC343TK	
Q706	8-729-920-31	TRANSISTOR DTC343TK	
Q707	8-729-920-31	TRANSISTOR DTC343TK	
Q708	8-729-920-31	TRANSISTOR DTC343TK	
Q709	8-729-920-31	TRANSISTOR DTC343TK	
Q710	8-729-920-31	TRANSISTOR DTC343TK	
Q711	8-729-920-31	TRANSISTOR DTC343TK	
Q712	8-729-920-31	TRANSISTOR DTC343TK	
Q713	8-729-920-31	TRANSISTOR DTC343TK	
Q714	8-729-920-31	TRANSISTOR DTC343TK	
Q715	8-729-920-31	TRANSISTOR DTC343TK	

Ref. No.	Part No.	Description	Remark
		< RESISTOR >	
R701	1-216-634-11	METAL CHIP 200 0.5% 1/10W	
R702	1-216-635-11	METAL CHIP 220 0.5% 1/10W	
R703	1-216-637-11	METAL CHIP 270 0.5% 1/10W	
R704	1-216-639-11	METAL CHIP 330 0.5% 1/10W	
R705	1-216-642-11	METAL CHIP 430 0.5% 1/10W	
R706	1-216-644-11	METAL CHIP 510 0.5% 1/10W	
R707	1-216-646-11	METAL CHIP 620 0.5% 1/10W	
R708	1-216-649-11	METAL CHIP 820 0.5% 1/10W	
R709	1-216-652-11	METAL CHIP 1.1K 0.5% 1/10W	
R710	1-216-655-11	METAL CHIP 1.5K 0.5% 1/10W	
R711	1-216-660-11	METAL CHIP 2.4K 0.5% 1/10W	
R712	1-216-665-11	METAL CHIP 3.9K 0.5% 1/10W	
R713	1-216-672-11	METAL CHIP 7.5K 0.5% 1/10W	
R714	1-216-684-91	METAL CHIP 24K 0.50% 1/10W	
R715	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R716	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R717	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R718	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R719	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R720	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R721	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R722	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R723	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R724	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R725	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R726	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R727	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R728	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R729	1-216-089-00	METAL CHIP 47K 5% 1/10W	

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Ref. No.	Part No.	Description	Remark
*	1-648-326-11	DIGITAL IN BOARD ****************	
		< TRANSISTOR >	
Q803	8-729-900-52	TRANSISTOR DTC114YK	
Q804	8-729-901-46	TRANSISTOR DTA114YK	

****

Ref. No.	Part No.	Description	Remark
*	A-3264-581-A	FILTER BOARD, COMPLETE **********************	
		< CAPACITOR >	
C451	1-239-601-21	FILTER, CHIP EMI	
C452	1-239-601-21	FILTER, CHIP EMI	
C453	1-239-601-21	FILTER, CHIP EMI	
C454	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
C455	1-239-601-21	FILTER, CHIP EMI	

Ref. No.	Part No.	Description	Remark
C456	1-239-601-21	FILTER, CHIP EMI	
C457	1-239-601-21	FILTER, CHIP EMI	
C458	1-239-601-21	FILTER, CHIP EMI	
C459	1-239-601-21	FILTER, CHIP EMI	
C460	1-239-601-21	FILTER, CHIP EMI	
C461	1-239-601-21	FILTER, CHIP EMI	
C462	1-239-601-21	FILTER, CHIP EMI	
C463	1-239-601-21	FILTER, CHIP EMI	
C464	1-239-601-21	FILTER, CHIP EMI	
C465	1-239-601-21	FILTER, CHIP EMI	
C466	1-239-601-21	FILTER, CHIP EMI	
C467	1-239-601-21	FILTER, CHIP EMI	
C468	1-239-601-21	FILTER, CHIP EMI	
C469	1-239-601-21	FILTER, CHIP EMI	
C470	1-239-601-21	FILTER, CHIP EMI	
C471	1-239-601-21	FILTER, CHIP EMI	
C472	1-239-601-21	FILTER, CHIP EMI	
C473	1-239-601-21	FILTER, CHIP EMI	
C474	1-239-601-21	FILTER, CHIP EMI	
C475	1-239-601-21	FILTER, CHIP EMI	
C476	1-239-601-21	FILTER, CHIP EMI	
C477	1-239-601-21	FILTER, CHIP EMI	
C478	1-239-601-21	FILTER, CHIP EMI	
C479	1-163-141-00	CERAMIC CHIP 0.001uF 5% 50V	
C480	1-163-141-00	CERAMIC CHIP 0.001uF 5% 50V	
C483	1-239-601-21	FILTER, CHIP EMI	
		< CONNECTOR >	
* CN451	1-750-524-11	CONNECTOR, FFC/FPC 26P	
* CN452	1-750-524-11	CONNECTOR, FFC/FPC 26P	
* CN453	1-750-536-11	CONNECTOR, FLEXIBLE 6P	
* CN454	1-750-536-11	CONNECTOR, FLEXIBLE 6P	
* CN455	1-750-537-11	CONNECTOR, FLEXIBLE 7P	
* CN456	1-750-536-11	CONNECTOR, FLEXIBLE 6P	
* CN457	1-750-537-11	CONNECTOR, FLEXIBLE 7P	
* CN458	1-750-537-11	CONNECTOR, FLEXIBLE 7P	
		< DIODE >	
D401	8-719-400-18	DIODE MA152WK	
		< JUMPER RESISTOR >	
JR50	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR51	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR52	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR53	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR54	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR55	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR56	1-216-295-00	METAL CHIP 0 5% 1/10W	

Ref. No.	Part No.	Description	Remark
		< LINE FILTER >	
LF400	1-402-951-11	COIL, LINE FILTER	
		< TRANSISTOR >	
Q405	8-729-421-19	TRANSISTOR UN2213	
		< RESISTOR >	
R400	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R401	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R402	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R403	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R404	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R405	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R408	1-216-097-00	METAL CHIP 100K 5% 1/10W	
**			
*	A-3264-200-A	IO BOARD, COMPLETE ******************	
*	1-751-002-11	WIRE, PARALLEL (16 CORE)	
*	1-751-003-11	WIRE, PARALLEL (28 CORE)	
*	1-751-004-11	WIRE, PARALLEL (6 CORE)	
*	1-751-005-11	WIRE, PARALLEL (6 CORE)	
*	1-751-006-11	WIRE, PARALLEL (7 CORE)	
		< CAPACITOR >	
C601	1-124-584-00	ELECT 100uF 20% 10V	
C602	1-163-141-00	CERAMIC CHIP 0.001uF 5% 50V	
C603	1-163-141-00	CERAMIC CHIP 0.001uF 5% 50V	
C604	1-164-232-11	CERAMIC CHIP 0.01uF 50V	
C605	1-124-584-00	ELECT 100uF 20% 10V	
C606	1-163-141-00	CERAMIC CHIP 0.001uF 5% 50V	
C607	1-124-584-00	ELECT 100uF 20% 10V	
C608	1-163-141-00	CERAMIC CHIP 0.001uF 5% 50V	
C613	1-164-232-11	CERAMIC CHIP 0.01uF 50V	
C614	1-164-232-11	CERAMIC CHIP 0.01uF 50V	
C615	1-164-232-11	CERAMIC CHIP 0.01uF 50V	
C651	1-424-464-21	FILTER, NOISE	
C652	1-424-464-21	FILTER, NOISE	
C653	1-424-464-21	FILTER, NOISE	
C654	1-424-464-21	FILTER, NOISE	
C656	1-424-464-21	FILTER, NOISE	
C657	1-424-464-21	FILTER, NOISE	
C658	1-424-464-21	FILTER, NOISE	
C660	1-424-464-21	FILTER, NOISE	
C662	1-424-464-21	FILTER, NOISE	
C664	1-424-464-21	FILTER, NOISE	
C665	1-424-464-21	FILTER, NOISE	
C666	1-424-464-21	FILTER, NOISE	
C667	1-424-464-21	FILTER, NOISE	

Ref. No.	Part No.	Description	Remark
C668	1-424-464-21	FILTER, NOISE	
C669	1-424-464-21	FILTER, NOISE	
C670	1-424-464-21	FILTER, NOISE	
C671	1-424-464-21	FILTER, NOISE	
C672	1-424-464-21	FILTER, NOISE	
C673	1-424-464-21	FILTER, NOISE	
C674	1-406-579-11	FILTER, NOISE	
C675	1-424-464-21	FILTER, NOISE	
C676	1-424-464-21	FILTER, NOISE	
C677	1-424-464-21	FILTER, NOISE	
C678	1-424-464-21	FILTER, NOISE	
C679	1-424-464-21	FILTER, NOISE	
C681	1-424-464-21	FILTER, NOISE	
C683	1-424-464-21	FILTER, NOISE	
C684	1-424-464-21	FILTER, NOISE	
C685	1-424-464-21	FILTER, NOISE	
C686	1-424-464-21	FILTER, NOISE	
C687	1-424-464-21	FILTER, NOISE	
C688	1-424-464-21	FILTER, NOISE	
C689	1-424-464-21	FILTER, NOISE	
C690	1-126-926-11	ELECT 1000uF 20% 10V	
C691	1-126-926-11	ELECT 1000uF 20% 10V	
C694	1-164-346-11	CERAMIC CHIP 1uF 16V	
C699	1-163-038-00	CERAMIC CHIP 0.1uF 25V	
		< CONNECTOR >	
CN601	1-695-825-11	HOUSING, CONNECTOR 16P	
* CN602	1-564-712-11	PIN, CONNECTOR (SMALL TYPE)10P	
* CN603	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P	
* CN604	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P	
* CN605	1-569-974-11	PIN, CONNECTOR (PC BOARD) 3P	
* CN606	1-564-708-11	PIN, CONNECTOR (SMALL TYPE) 6P	
* CN611	1-569-942-11	SOCKET, CONNECTOR 26P	
* CN615	1-569-926-11	SOCKET, CONNECTOR 7P	
* CN616	1-569-926-11	SOCKET, CONNECTOR 7P	
* CN621	1-569-925-11	SOCKET, CONNECTOR 6P	
		< DIODE >	
D601	8-719-800-76	DIODE 1SS226	
D602	8-719-400-18	DIODE MA152WK	
D603	8-719-400-18	DIODE MA152WK	
		< IC >	
IC601	8-759-161-70	IC IDT7200S50SD-TR	
IC602	8-759-925-73	IC SN74HC03NS	
IC603	8-759-925-76	IC SN74HC08ANS	
IC614	8-759-058-82	IC S-81240AG-RJ-S	
		< JUMPER RESISTOR >	
JR1	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR2	1-216-295-00	METAL CHIP 0 5% 1/10W	
		< COIL >	
L600	1-412-006-31	INDUCTOR CHIP 10uH	
L601	1-408-421-00	INDUCTOR 100uH	
L602	1-408-421-00	INDUCTOR 100uH	
L603	1-408-421-00	INDUCTOR 100uH	
L604	1-410-977-11	INDUCTOR 100uH	
L605	1-414-211-11	INDUCTOR 100uH	
L606	1-412-006-31	INDUCTOR CHIP 10uH	
L607	1-410-979-11	INDUCTOR 220uH	
L608	1-410-979-11	INDUCTOR 220uH	
L610	1-412-006-31	INDUCTOR CHIP 10uH	
L611	1-410-979-11	INDUCTOR 220uH	
		< TRANSISTOR >	
Q601	8-729-901-46	TRANSISTOR DTA114YK	
Q602	8-729-421-19	TRANSISTOR UN2213	
Q603	8-729-421-19	TRANSISTOR UN2213	
Q604	8-729-421-19	TRANSISTOR UN2213	
Q605	8-729-421-19	TRANSISTOR UN2213	
		< RESISTOR >	
R600	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R601	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R602	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R603	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R604	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R607	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R608	1-216-295-00	METAL CHIP 0 5% 1/10W	
R610	1-216-295-00	METAL CHIP 0 5% 1/10W	
R611	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R612	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R613	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R614	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R615	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R616	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R617	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R618	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R619	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R620	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R621	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R622	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R623	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R624	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R625	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R626	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R627	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R628	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R629	1-216-073-00	METAL CHIP 10K 5% 1/10W	

IO INLET LOOP ANTENNA MAIN

Ref. No.	Part No.	Description	Remark
R630	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R631	1-216-295-00	METAL CHIP 0 5% 1/10W	
R632	1-216-295-00	METAL CHIP 0 5% 1/10W	
R633	1-216-013-00	METAL CHIP 33 5% 1/10W	
R634	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R635	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R636	1-216-063-00	METAL CHIP 3.9K 5% 1/10W	
R637	1-216-105-00	METAL CHIP 220K 5% 1/10W	
R638	1-216-689-11	METAL CHIP 39K 0.5% 1/10W	
R639	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R640	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R641	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R642	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R643	1-216-099-00	METAL CHIP 120K 5% 1/10W	
R644	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R645	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R646	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R647	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R648	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R649	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R650	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R651	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R652	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R653	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R654	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R655	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R656	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R658	1-216-295-00	METAL CHIP 0 5% 1/10W	
R660	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R662	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R663	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R664	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R665	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R666	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R667	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R668	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R669	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R670	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R688	1-216-295-00	METAL CHIP 0 5% 1/10W	
**			
*	1-649-096-11	INLET BOARD (US,Canadian) **************************	
*	1-649-639-11	INLET BOARD (AEP,UK,G,IT) **************************	
		< CONNECTOR >	
⚠CN901	1-526-838-11	INLET, AC 2P (AEP,UK,G,IT)	
⚠CN901	1-540-009-11	INLET, AC 2P (US,Canadian)	
* CN902	1-569-715-11	PIN, CONNECTOR (PC BOARD) 2P	

Ref. No.	Part No.	Description	Remark
		< FUSE >	
⚠F902	1-576-104-11	FUSE (2A) (US,Canadian)	
		< FUSE HOLDER >	
FH903	1-533-233-11	HOLDER, FUSE (US,Canadian)	
FH904	1-533-233-11	HOLDER, FUSE (US,Canadian)	
		< LINE FILTER >	
LF901	1-402-663-11	TRANSFORMER, LINE FILTER (LFT)	
**			
*	1-647-915-21	LOOP ANTENNA BOARD ******************	
		< FUSE HOLDER >	
ANT2	1-533-233-11	HOLDER, FUSE	
		< CONNECTOR >	
* CN6	1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P	
		< TERMINAL >	
TB1	1-537-114-11	TERMINAL BOARD	
**			
*	A-3264-584-A	MAIN BOARD, COMPLETE (AEP,G) ****************************	
*	A-3264-618-A	MAIN BOARD, COMPLETE (US,Canadian) **********************************	
*	A-3264-619-A	MAIN BOARD, COMPLETE (UK) *************************	
*	A-3264-621-A	MAIN BOARD, COMPLETE (IT) *************************	
*	4-902-345-01	HEAT SINK (AEP,UK,G,IT)	
*	3-309-144-21	HEAT SINK (US,Canadian)	
	7-682-547-09	SCREW +BVTT 3X6 (S) (AEP,UK,G,IT)	
	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	
		< CAPACITOR >	
C101	1-126-044-11	ELECT 1uF 20% 50V	
C102	1-126-043-11	ELECT 0.47uF 20% 50V	
C103	1-126-043-11	ELECT 0.47uF 20% 50V	
C104	1-126-044-11	ELECT 1uF 20% 50V	
C105	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
C106	1-123-369-00	ELECT 4.7uF 20% 25V	
C107	1-163-105-00	CERAMIC CHIP 33PF 5% 50V	
C109	1-136-165-00	FILM 0.1uF 5% 50V	
C110	1-136-165-00	FILM 0.1uF 5% 50V	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remark
C111	1-126-044-11	ELECT	1uF	20%	50V
C112	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C113	1-126-044-11	ELECT	1uF	20%	50V
C114	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C115	1-124-915-11	ELECT	10uF	20%	63V
C116	1-124-915-11	ELECT	10uF	20%	63V
C117	1-124-910-11	ELECT	47uF	20%	50V
C118	1-136-165-00	FILM	0.1uF	5%	50V
C119	1-136-165-00	FILM	0.1uF	5%	50V
C120	1-126-335-11	ELECT	220uF	20%	10V
C121	1-126-335-11	ELECT	220uF	20%	10V
C122	1-126-044-11	ELECT	1uF	20%	50V
C123	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C124	1-123-369-00	ELECT	4.7uF	20%	25V
C125	1-163-107-00	CERAMIC CHIP	39PF	5%	50V
C126	1-124-120-11	ELECT	220uF	20%	25V
C127	1-126-157-11	ELECT	10uF	20%	16V
C128	1-124-557-11	ELECT	1000uF	20%	25V
C129	1-126-044-11	ELECT	1uF	20%	50V
C130	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C131	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C133	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C134	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C136	1-126-044-11	ELECT	1uF	20%	50V
C137	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C150	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C151	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C190	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C201	1-126-044-11	ELECT	1uF	20%	50V
C202	1-126-043-11	ELECT	0.47uF	20%	50V
C203	1-126-043-11	ELECT	0.47uF	20%	50V
C204	1-126-044-11	ELECT	1uF	20%	50V
C205	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C206	1-123-369-00	ELECT	4.7uF	20%	25V
C207	1-163-105-00	CERAMIC CHIP	33PF	5%	50V
C209	1-136-165-00	FILM	0.1uF	5%	50V
C210	1-136-165-00	FILM	0.1uF	5%	50V
C211	1-126-044-11	ELECT	1uF	20%	50V
C212	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C213	1-126-044-11	ELECT	1uF	20%	50V
C214	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C215	1-124-915-11	ELECT	10uF	20%	63V
C216	1-124-915-11	ELECT	10uF	20%	63V
C217	1-124-910-11	ELECT	47uF	20%	50V
C218	1-136-165-00	FILM	0.1uF	5%	50V
C219	1-136-165-00	FILM	0.1uF	5%	50V
C220	1-126-335-11	ELECT	220uF	20%	10V
C221	1-126-335-11	ELECT	220uF	20%	10V
C222	1-126-044-11	ELECT	1uF	20%	50V
C223	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C224	1-123-369-00	ELECT	4.7uF	20%	25V

Ref. No.	Part No.	Description			Remark
C225	1-163-107-00	CERAMIC CHIP	39PF	5%	50V
C226	1-124-120-11	ELECT	220uF	20%	25V
C227	1-126-157-11	ELECT	10uF	20%	16V
C229	1-126-044-11	ELECT	1uF	20%	50V
C230	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C231	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C233	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C234	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C236	1-126-044-11	ELECT	1uF	20%	50V
C237	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C250	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C251	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C290	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C301	1-126-101-11	ELECT	100uF	20%	16V
C302	1-126-101-11	ELECT	100uF	20%	16V
C304	1-126-101-11	ELECT	100uF	20%	16V
C305	1-126-101-11	ELECT	100uF	20%	16V
C307	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C309	1-126-101-11	ELECT	100uF	20%	16V
C310	1-126-101-11	ELECT	100uF	20%	16V
C312	1-124-902-00	ELECT	0.47uF	20%	50V
C313	1-124-122-11	ELECT	100uF	20%	50V
C314	1-126-101-11	ELECT	100uF	20%	16V
C315	1-124-126-00	ELECT	47uF	20%	10V
C319	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C320	1-124-910-11	ELECT	47uF	20%	50V
C321	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C331	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C802	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C803	1-124-443-00	ELECT	100uF	20%	10V
C804	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C805	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C806	1-163-241-11	CERAMIC CHIP	39PF	5%	50V
C807	1-163-241-11	CERAMIC CHIP	39PF	5%	50V
C808	1-163-110-00	CERAMIC CHIP	51PF	5%	50V
C809	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C810	1-124-907-11	ELECT	10uF	20%	50V
C811	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C812	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C813	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C814	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C815	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C816	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C817	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C818	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C819	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C820	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C821	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C823	1-124-903-11	ELECT	1uF	20%	50V
C826	1-163-110-00	CERAMIC CHIP	51PF	5%	50V
C828	1-163-038-00	CERAMIC CHIP	0.1uF		25V

MAIN

Ref. No.	Part No.	Description				Remark
C829	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C830	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C831	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V	
C832	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V	
C833	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V	
C834	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V	
C835	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V	
C836	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V	
C837	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V	
C838	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V	
C839	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V	
C840	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V	
C842	1-163-031-11	CERAMIC CHIP	0.01uF		50V	
C843	1-163-031-11	CERAMIC CHIP	0.01uF		50V	
C844	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C845	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C846	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C847	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C848	1-163-031-11	CERAMIC CHIP	0.01uF		50V	
C850	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C851	1-163-031-11	CERAMIC CHIP	0.01uF		50V	
C852	1-161-379-00	CERAMIC	0.01uF	20%	25V	(AEP, G)
C853	1-162-290-31	CERAMIC	470PF	10%	50V	(AEP, UK, G, IT)
C901	1-163-036-00	CERAMIC CHIP	0.068uF		50V	
C902	1-163-036-00	CERAMIC CHIP	0.068uF		50V	
C903	1-163-036-00	CERAMIC CHIP	0.068uF		50V	
C904	1-163-036-00	CERAMIC CHIP	0.068uF		50V	
C906	1-124-902-00	ELECT	0.47uF	20%	50V	
C907	1-126-101-11	ELECT	100uF	20%	16V	
C908	1-126-101-11	ELECT	100uF	20%	16V	
C909	1-123-306-00	ELECT	47uF	20%	10V	
C910	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C911	1-163-036-00	CERAMIC CHIP	0.068uF		50V	
C912	1-124-120-11	ELECT	220uF	20%	25V	
C913	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C914	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C915	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C917	1-164-346-11	CERAMIC CHIP	1uF		16V	
C922	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C923	1-124-907-11	ELECT	10uF	20%	50V	
C924	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C925	1-124-907-11	ELECT	10uF	20%	50V	
C926	1-163-105-00	CERAMIC CHIP	33PF	5%	50V	
C927	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C928	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C931	1-165-319-11	CERAMIC CHIP	0.1uF		50V	
C933	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C934	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C935	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C951	1-126-233-11	ELECT	22uF	20%	50V	
C952	1-126-233-11	ELECT	22uF	20%	50V	
		< CONNECTOR >				
* CN101	1-569-973-11	PIN, CONNECTOR (PC BOARD) 2P				
* CN201	1-569-973-11	PIN, CONNECTOR (PC BOARD) 2P				
* CN301	1-564-708-11	PIN, CONNECTOR (SMALL TYPE) 6P				
* CN302	1-569-926-11	SOCKET, CONNECTOR 7P				
* CN801	1-691-610-11	PIN, CONNECTOR (PC BOARD) 20P				
* CN802	1-691-610-11	PIN, CONNECTOR (PC BOARD) 20P				
* CN803	1-569-934-11	SOCKET, CONNECTOR 17P				
* CN804	1-569-918-11	SOCKET, CONNECTOR 26P				
* CN805	1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P				
* CN806	1-569-925-11	SOCKET, CONNECTOR 6P				
* CN808	1-750-538-11	HOUSING, CONNECTOR (PC BOARD) 12P				
* CN903	1-580-141-11	PIN, CONNECTOR (PC BOARD) 2P				
* CN904	1-569-925-11	SOCKET, CONNECTOR 6P				
		< DIODE >				
D304	8-719-400-18	DIODE	MA152WK			
D309	8-719-400-18	DIODE	MA152WK			
D801	8-719-400-18	DIODE	MA152WK			
D802	8-719-400-18	DIODE	MA152WK			
D903	8-719-400-18	DIODE	MA152WK			
D905	8-719-400-18	DIODE	MA152WK			
D906	8-719-114-66	DIODE	RD27M-B			
D909	8-719-400-18	DIODE	MA152WK			
D911	8-719-043-52	DIODE	F5KQ60			
D912	8-719-043-52	DIODE	F5KQ60			
D913	8-719-043-52	DIODE	F5KQ60			
D914	8-719-043-52	DIODE	F5KQ60			
		< FUSE >				
⚠F901	1-576-193-11	FUSE (US, Canadian)				
⚠F901	1-532-506-51	FUSE (AEP, UK, G, IT)				
		< FUSE HOLDER >				
FH901	1-533-233-11	HOLDER, FUSE				
FH902	1-533-233-11	HOLDER, FUSE				
		< IC >				
IC101	8-759-178-19	IC	uPC2505H			
IC201	8-759-178-19	IC	uPC2505H			
IC301	8-759-516-41	IC	CD4052BCM			
IC302	8-759-710-55	IC	NJM2100M			
IC303	8-759-636-55	IC	M5218AFP			
IC304	8-759-604-78	IC	M5216FP			
IC801	8-752-844-89	IC	CXP84120-010Q			
IC802	8-759-511-42	IC	S-80730AN			
IC803	8-759-242-29	IC	TC74HC4514AP			
IC804	8-749-923-04	IC	TOTX178			

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Ref. No.	Part No.	Description	Remark
IC805	8-749-923-05	IC TORX178	
IC806	8-759-234-20	IC TC7S08F	
IC901	8-759-513-10	IC BA3924-V3	
IC902	8-759-912-55	IC S-81250HG	
IC903	8-759-912-55	IC S-81250HG	

< JACK >

Ref. No.	Part No.	Description	Remark
J301	1-566-822-21	JACK	
J302	1-566-822-21	JACK	

< JUMPER RESISTOR >

Ref. No.	Part No.	Description	Remark
JR1	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR2	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR3	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR4	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR5	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR10	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR701	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR702	1-216-295-00	METAL CHIP 0 5% 1/10W	

< COIL >

Ref. No.	Part No.	Description	Remark
L101	1-414-278-11	INDUCTOR 0uH	
L102	1-414-278-11	INDUCTOR 0uH	
L201	1-414-278-11	INDUCTOR 0uH	
L202	1-414-278-11	INDUCTOR 0uH	
L301	1-402-984-11	FILTER, COMMON MODE	
L302	1-402-984-11	FILTER, COMMON MODE	
L510	1-414-278-11	INDUCTOR 0uH	
L520	1-414-278-11	INDUCTOR 0uH	
L801	1-412-860-11	INDUCTOR 220uH	
L802	1-410-312-11	INDUCTOR 0.22uH	
L803	1-412-006-31	INDUCTOR CHIP 10uH	
L804	1-412-006-31	INDUCTOR CHIP 10uH	
L805	1-412-006-31	INDUCTOR CHIP 10uH	
L806	1-410-389-31	INDUCTOR CHIP 47uH	
L807	1-410-971-11	INDUCTOR 10uH	
L808	1-410-971-11	INDUCTOR 10uH	
L809	1-412-006-31	INDUCTOR CHIP 10uH	
L901	1-410-977-11	INDUCTOR 100uH	
L902	1-410-971-11	INDUCTOR 10uH	
L903	1-410-389-31	INDUCTOR CHIP 47uH	

< IC LINK >

Ref. No.	Part No.	Description	Remark
⚠PS901	1-576-123-21	LINK, IC	

< TRANSISTOR >

Ref. No.	Part No.	Description	Remark
Q101	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q102	8-729-424-67	TRANSISTOR UN2216	
Q103	8-729-424-67	TRANSISTOR UN2216	
Q104	8-729-424-67	TRANSISTOR UN2216	(AEP, UK, G, IT)
Q106	8-729-424-67	TRANSISTOR UN2216	
Q107	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q108	8-729-920-31	TRANSISTOR DTC343TK	
Q111	8-729-920-31	TRANSISTOR DTC343TK	
Q201	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q202	8-729-424-67	TRANSISTOR UN2216	
Q203	8-729-424-67	TRANSISTOR UN2216	
Q204	8-729-424-67	TRANSISTOR UN2216	(AEP, UK, G, IT)
Q206	8-729-424-67	TRANSISTOR UN2216	
Q207	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q208	8-729-920-31	TRANSISTOR DTC343TK	
Q211	8-729-920-31	TRANSISTOR DTC343TK	
Q301	8-729-901-46	TRANSISTOR DTA114YK	
Q302	8-729-900-52	TRANSISTOR DTC114YK	
Q303	8-729-900-52	TRANSISTOR DTC114YK	
Q305	8-729-424-81	TRANSISTOR UN221E	
Q306	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q307	8-729-900-52	TRANSISTOR DTC114YK	
Q308	8-729-901-46	TRANSISTOR DTA114YK	
Q801	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q802	8-729-901-46	TRANSISTOR DTA114YK	
Q805	8-729-920-31	TRANSISTOR DTC343TK	
Q806	8-729-920-31	TRANSISTOR DTC343TK	
Q807	8-729-920-31	TRANSISTOR DTC343TK	
Q808	8-729-920-31	TRANSISTOR DTC343TK	
Q809	8-729-920-31	TRANSISTOR DTC343TK	
Q810	8-729-920-31	TRANSISTOR DTC343TK	
Q811	8-729-920-31	TRANSISTOR DTC343TK	
Q812	8-729-920-31	TRANSISTOR DTC343TK	
Q818	8-729-920-31	TRANSISTOR DTC343TK	
Q819	8-729-920-31	TRANSISTOR DTC343TK	
Q820	8-729-920-31	TRANSISTOR DTC343TK	
Q822	8-729-901-46	TRANSISTOR DTA114YK	
Q823	8-729-900-52	TRANSISTOR DTC114YK	
Q824	8-729-900-52	TRANSISTOR DTC114YK	
Q826	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q829	8-729-900-52	TRANSISTOR DTC114YK	
Q901	8-729-924-90	TRANSISTOR 2SB1370-EF	
Q904	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q905	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q906	8-729-901-46	TRANSISTOR DTA114YK	
Q907	8-729-900-52	TRANSISTOR DTC114YK	

< RESISTOR >

Ref. No.	Part No.	Description	Remark
R101	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R102	1-216-064-00	METAL CHIP 4.3K 5% 1/10W	
R103	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R104	1-216-063-00	METAL CHIP 3.9K 5% 1/10W	
R105	1-216-075-00	METAL CHIP 12K 5% 1/10W	
R106	1-216-105-00	METAL CHIP 220K 5% 1/10W	
R107	1-216-062-00	METAL CHIP 3.6K 5% 1/10W	

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MAIN

Ref. No.	Part No.	Description				Remark
R108	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R109	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R110	1-216-080-00	METAL CHIP	20K	5%	1/10W	
R111	1-216-053-00	METAL CHIP	1.5K	5%	1/10W	
R112	1-216-099-00	METAL CHIP	120K	5%	1/10W	
R113	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R114	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R115	1-216-064-00	METAL CHIP	4.3K	5%	1/10W	
R116	1-216-085-00	METAL CHIP	33K	5%	1/10W	
R117	1-216-121-00	METAL CHIP	1M	5%	1/10W	
R118	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R119	1-216-099-00	METAL CHIP	120K	5%	1/10W	
R120	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R121	1-216-090-00	METAL CHIP	51K	5%	1/10W	
R122	1-216-009-00	METAL CHIP	22	5%	1/10W	
R123	1-216-009-00	METAL CHIP	22	5%	1/10W	
R124	1-216-053-00	METAL CHIP	1.5K	5%	1/10W	
R125	1-216-053-00	METAL CHIP	1.5K	5%	1/10W	
R126	1-249-381-11	CARBON	1	5%	1/4W	F
R127	1-249-381-11	CARBON	1	5%	1/4W	F
R128	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R129	1-216-082-00	METAL GLAZE	24K	5%	1/10W	
R130	1-216-013-00	METAL CHIP	33	5%	1/10W	
R131	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R132	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R133	1-216-105-00	METAL CHIP	220K	5%	1/10W	
R134	1-216-042-00	METAL CHIP	510	5%	1/10W	
R137	1-216-295-00	METAL CHIP	0	5%	1/10W	
R139	1-216-064-00	METAL CHIP	4.3K	5%	1/10W	
R140	1-216-085-00	METAL CHIP	33K	5%	1/10W	
R141	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R201	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R202	1-216-064-00	METAL CHIP	4.3K	5%	1/10W	
R203	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R204	1-216-063-00	METAL CHIP	3.9K	5%	1/10W	
R205	1-216-075-00	METAL CHIP	12K	5%	1/10W	
R206	1-216-105-00	METAL CHIP	220K	5%	1/10W	
R207	1-216-062-00	METAL CHIP	3.6K	5%	1/10W	
R208	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R209	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R210	1-216-080-00	METAL CHIP	20K	5%	1/10W	
R211	1-216-053-00	METAL CHIP	1.5K	5%	1/10W	
R212	1-216-099-00	METAL CHIP	120K	5%	1/10W	
R213	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R214	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R215	1-216-064-00	METAL CHIP	4.3K	5%	1/10W	
R216	1-216-085-00	METAL CHIP	33K	5%	1/10W	
R217	1-216-121-00	METAL CHIP	1M	5%	1/10W	
R218	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R219	1-216-099-00	METAL CHIP	120K	5%	1/10W	
R220	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R221	1-216-090-00	METAL CHIP	51K	5%	1/10W	
R222	1-216-009-00	METAL CHIP	22	5%	1/10W	
R223	1-216-009-00	METAL CHIP	22	5%	1/10W	
R224	1-216-053-00	METAL CHIP	1.5K	5%	1/10W	
R225	1-216-053-00	METAL CHIP	1.5K	5%	1/10W	
R226	1-249-381-11	CARBON	1	5%	1/4W	F
R227	1-249-381-11	CARBON	1	5%	1/4W	F
R228	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R229	1-216-082-00	METAL GLAZE	24K	5%	1/10W	
R230	1-216-013-00	METAL CHIP	33	5%	1/10W	
R231	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R232	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R233	1-216-105-00	METAL CHIP	220K	5%	1/10W	
R234	1-216-042-00	METAL CHIP	510	5%	1/10W	
R237	1-216-295-00	METAL CHIP	0	5%	1/10W	
R239	1-216-064-00	METAL CHIP	4.3K	5%	1/10W	
R240	1-216-085-00	METAL CHIP	33K	5%	1/10W	
R241	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R301	1-216-025-00	METAL CHIP	100	5%	1/10W	
R302	1-216-025-00	METAL CHIP	100	5%	1/10W	
R303	1-216-025-00	METAL CHIP	100	5%	1/10W	
R304	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R305	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R307	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R308	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R309	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R310	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R311	1-216-121-00	METAL CHIP	1M	5%	1/10W	
R312	1-216-025-00	METAL CHIP	100	5%	1/10W	
R314	1-216-025-00	METAL CHIP	100	5%	1/10W	
R316	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R317	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R318	1-216-295-00	METAL CHIP	0	5%	1/10W	
R319	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R320	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R324	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R325	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R330	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R331	1-216-077-00	METAL CHIP	15K	5%	1/10W	
R801	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R802	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R803	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R804	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R805	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R806	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R807	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R808	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R812	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R813	1-216-073-00	METAL CHIP	10K	5%	1/10W	

Ref.No.	Part No.	Description	Remark
R814	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R815	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R816	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R817	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R818	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R819	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R820	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R821	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R822	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R823	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R824	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R825	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R826	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R827	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R828	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R829	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R830	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R831	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R832	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R833	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R834	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R835	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R836	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R837	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R838	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R839	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R840	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R841	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R842	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R843	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R844	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R845	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R846	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R847	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R848	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R849	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R850	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R851	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R852	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R853	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R854	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R855	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R856	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R857	1-216-097-00	METAL CHIP 100K 5% 1/10W	(AEP, UK, G, IT)
R858	1-216-097-00	METAL CHIP 100K 5% 1/10W	(AEP, UK, G, IT)
R859	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R861	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R862	1-216-049-00	METAL CHIP 1K 5% 1/10W	

Ref.No.	Part No.	Description	Remark
R863	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R864	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R865	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R866	1-216-025-00	METAL CHIP 100 5% 1/10W	
R867	1-216-053-00	METAL CHIP 1.5K 5% 1/10W	
R868	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R869	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R870	1-216-634-11	METAL CHIP 200 0.5% 1/10W	
R871	1-216-635-11	METAL CHIP 220 0.5% 1/10W	
R872	1-216-637-11	METAL CHIP 270 0.5% 1/10W	
R873	1-216-639-11	METAL CHIP 330 0.5% 1/10W	
R874	1-216-642-11	METAL CHIP 430 0.5% 1/10W	
R875	1-216-644-11	METAL CHIP 510 0.5% 1/10W	
R876	1-216-646-11	METAL CHIP 620 0.5% 1/10W	
R877	1-216-295-00	METAL CHIP 0 5% 1/10W	
R879	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R881	1-216-635-11	METAL CHIP 220 0.5% 1/10W	
R882	1-216-637-11	METAL CHIP 270 0.5% 1/10W	
R883	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R884	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R885	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R886	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R887	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R888	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R889	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R890	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R891	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R892	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R893	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R894	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R895	1-216-295-00	METAL CHIP 0 5% 1/10W	(US, Canadian)
R896	1-216-295-00	METAL CHIP 0 5% 1/10W	(US, Canadian)
R901	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R904	1-216-095-00	METAL CHIP 82K 5% 1/10W	
R905	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R906	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R907	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R908	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R909	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R910	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R911	1-216-105-00	METAL CHIP 220K 5% 1/10W	
R912	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R913	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R914	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R915	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R916	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R917	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R919	1-216-105-00	METAL CHIP 220K 5% 1/10W	
R920	1-216-105-00	METAL CHIP 220K 5% 1/10W	

Ref.No.	Part No.	Description	Remark
R921	1-216-105-00	METAL CHIP 220K 5% 1/10W	
R922	1-216-105-00	METAL CHIP 220K 5% 1/10W	
R923	1-216-097-00	METAL CHIP 100K 5% 1/10W	
		< TRANSFORMER >	
⚠T903	1-450-126-11	TRANSFORMER, DC-DC CONVERTER	
		< VIBRATOR >	
X801	1-567-098-00	OSCILLATOR, CRYSTAL (4.8MHz)	
X802	1-579-901-11	OSCILLATOR, CERAMIC (32.76kHz)	
***			
*	1-648-327-11	MD POWER BOARD **************	
		< DIODE >	
D902	8-719-974-59	DIODE 1SR139-100	
		< IC >	
IC904	8-759-231-53	IC M5F7805	
		< LINE FILTER >	
LF902	1-402-951-11	COIL, LINE FILTER	
***			
*	1-648-325-11	POWER SW BOARD **************	
		< DIODE >	
D910	8-719-400-18	DIODE MA152WK	
		< TRANSISTOR >	
Q908	8-729-901-46	TRANSISTOR DTA114YK	
Q909	8-729-900-52	TRANSISTOR DTC114YK	
***			
*	A-3264-583-A	RADIO BOARD, COMPLETE (AEP,UK,G,IT) ***********************************	
*	A-3264-785-A	RADIO BOARD, COMPLETE (US,Canadian) ***********************************	
		< CAPACITOR >	
C1	1-102-945-00	CERAMIC 8.0PF +-0.5PF 50V	
C2	1-163-009-11	CERAMIC CHIP 0.001uF 10% 50V	
C3	1-163-031-11	CERAMIC CHIP 0.01uF 50V	
C4	1-163-009-11	CERAMIC CHIP 0.001uF 10% 50V	
C5	1-163-088-00	CERAMIC CHIP 5PF 50V	
C6	1-163-009-11	CERAMIC CHIP 0.001uF 10% 50V	
C7	1-163-087-00	CERAMIC CHIP 4PF 50V	
C8	1-163-038-00	CERAMIC CHIP 0.1uF 25V	
C9	1-164-232-11	CERAMIC CHIP 0.01uF 50V	
C10	1-163-031-11	CERAMIC CHIP 0.01uF 50V	
C11	1-164-232-11	CERAMIC CHIP 0.01uF 50V	
C12	1-163-141-00	CERAMIC CHIP 0.001uF 5% 50V	
C13	1-124-126-00	ELECT 47uF 20% 10V	
C14	1-164-345-11	CERAMIC CHIP 0.082uF 10% 25V	
C15	1-164-344-11	CERAMIC CHIP 0.068uF 10% 25V	
C16	1-124-903-11	ELECT 1uF 20% 50V	
C17	1-164-345-11	CERAMIC CHIP 0.082uF 10% 25V	
C18	1-163-031-11	CERAMIC CHIP 0.01uF 50V	
C19	1-163-031-11	CERAMIC CHIP 0.01uF 50V	
C20	1-124-903-11	ELECT 1uF 20% 50V	
C21	1-124-907-11	ELECT 10uF 20% 50V	
C22	1-163-037-11	CERAMIC CHIP 0.022uF 10% 25V	
C23	1-124-443-00	ELECT 100uF 20% 10V	
C24	1-163-031-11	CERAMIC CHIP 0.01uF 50V	
C25	1-102-824-00	CERAMIC 470PF 5% 50V	
C26	1-163-235-11	CERAMIC CHIP 22PF 5% 50V	
C27	1-161-021-11	CERAMIC 0.047uF 10% 25V	
C28	1-164-096-11	CERAMIC 0.01uF 50V	
C29	1-164-088-11	CERAMIC 0.001uF 50V	
C30	1-102-951-00	CERAMIC 15PF 5% 50V	
C31	1-162-827-11	CERAMIC 0.001uF 10% 16V	
C32	1-163-009-11	CERAMIC CHIP 0.001uF 10% 50V	
C33	1-163-031-11	CERAMIC CHIP 0.01uF 50V	
C34	1-163-099-00	CERAMIC CHIP 18PF 5% 50V	
C35	1-163-099-00	CERAMIC CHIP 18PF 5% 50V	
C36	1-124-907-11	ELECT 10uF 20% 50V	
C37	1-163-031-11	CERAMIC CHIP 0.01uF 50V	
C38	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
C39	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
C40	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
C41	1-163-009-11	CERAMIC CHIP 0.001uF 10% 50V	
C42	1-136-177-00	FILM 1uF 5% 50V	
C43	1-130-483-00	MYLAR 0.01uF 5% 50V	
C44	1-164-232-11	CERAMIC CHIP 0.01uF 50V	
C45	1-164-232-11	CERAMIC CHIP 0.01uF 50V	
C48	1-162-839-11	CERAMIC 0.01uF 10% 16V	
C49	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
C50	1-163-024-00	CERAMIC CHIP 0.018uF 10% 50V	
C51	1-124-902-00	ELECT 0.47uF 20% 50V	
C52	1-163-024-00	CERAMIC CHIP 0.018uF 10% 50V	
C53	1-124-902-00	ELECT 0.47uF 20% 50V	
C54	1-163-031-11	CERAMIC CHIP 0.01uF 50V	
C55	1-124-907-11	ELECT 10uF 20% 50V	
C68	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
C69	1-124-927-11	ELECT 4.7uF 20% 100V	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description				Remark
C70	1-124-903-11	ELECT	1uF	20%	50V	
C71	1-124-443-00	ELECT	100uF	20%	10V	
C72	1-124-907-11	ELECT	10uF	20%	50V	
C73	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C74	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C77	1-163-109-00	CERAMIC CHIP	47PF	5%	50V	
C78	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C79	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C81	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C82	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C83	1-163-059-00	CERAMIC CHIP	0.01uF	10%	50V	
C84	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
		< FILTER >				
CF1	1-578-781-11	FILTER, CERAMIC (US,Canadian)				
CF2	1-578-781-11	FILTER, CERAMIC (US,Canadian)				
CF3	1-578-781-11	FILTER, CERAMIC (US,Canadian)				
CF4	1-578-779-21	VIBRATOR, CERAMIC				
		< COMPOSITION CIRCUIT BLOCK >				
CFT1	1-239-173-11	ENCAPSULATED COMPONENT				
		< CONNECTOR >				
* CN1	1-569-934-11	SOCKET, CONNECTOR 17P				
		< TRIMMER >				
CT1	1-141-411-11	CAP, ADJ 20PF				
CT2	1-141-411-11	CAP, ADJ 20PF				
		< DIODE >				
D1	8-719-800-76	DIODE	1SS226			
D2	8-719-026-23	DIODE	MA786			
D5	8-719-980-71	DIODE	SVC342L-V			
D7	8-713-300-57	DIODE	1T33			
D8	8-713-300-57	DIODE	1T33			
		< FLUORESCENT INDICATOR >				
FL1	1-236-711-21	FILTER, BAND PASS				
		< IC >				
IC1	8-759-242-89	IC	TA2012N			
IC2	8-759-823-81	IC	LC7216M			
IC3	8-759-039-95	IC	TA8176SN			
		< COIL >				
L1	1-406-483-11	COIL (OSC)				
L3	1-406-770-11	COIL, RF				
L6	1-406-484-21	COIL (OSC)				
L11	1-410-977-11	INDUCTOR	100uH			
L13	1-410-971-11	INDUCTOR	10uH			

Ref. No.	Part No.	Description				Remark
L14	1-410-971-11	INDUCTOR	10uH			
L21	1-410-204-31	INDUCTOR CHIP	10uH			
		< TRANSISTOR >				
Q1	8-729-920-38	TRANSISTOR	2SC2059K-N			
Q4	8-729-424-38	TRANSISTOR	UN2110			
Q5	8-729-900-51	TRANSISTOR	DTA114TK			
Q6	8-729-424-38	TRANSISTOR	UN2110			
Q7	8-729-920-31	TRANSISTOR	DTC343TK			
Q8	8-729-012-83	TRANSISTOR	2SK679A			
Q11	8-729-900-52	TRANSISTOR	DTC114YK			
Q13	8-729-923-73	TRANSISTOR	DTA123YK			
Q14	8-729-900-52	TRANSISTOR	DTC114YK			
Q15	8-729-923-65	TRANSISTOR	DTA143ZK			
Q16	8-729-900-52	TRANSISTOR	DTC114YK			
Q17	8-729-923-73	TRANSISTOR	DTA123YK			
Q18	8-729-421-19	TRANSISTOR	UN2213			
Q19	8-729-923-73	TRANSISTOR	DTA123YK			
Q21	8-729-920-31	TRANSISTOR	DTC343TK			
Q22	8-729-920-31	TRANSISTOR	DTC343TK			
		< RESISTOR >				
R1	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R2	1-216-021-00	METAL CHIP	68	5%	1/10W	
R3	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R4	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R5	1-216-077-00	METAL CHIP	15K	5%	1/10W	
R6	1-216-013-00	METAL CHIP	33	5%	1/10W	
R7	1-216-077-00	METAL CHIP	15K	5%	1/10W	
R8	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R9	1-216-035-00	METAL CHIP	270	5%	1/10W	
R10	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R11	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R12	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R13	1-249-395-11	CARBON	15	5%	1/4W	F
R14	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R15	1-216-033-00	METAL CHIP	220	5%	1/10W	
R17	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R18	1-216-027-00	METAL CHIP	120	5%	1/10W	
R19	1-216-037-00	METAL CHIP	330	5%	1/10W	
R20	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R21	1-216-021-00	METAL CHIP	68	5%	1/10W	
R22	1-216-075-00	METAL CHIP	12K	5%	1/10W	
R23	1-216-083-00	METAL CHIP	27K	5%	1/10W	
R24	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R25	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R26	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R27	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R28	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R29	1-216-049-00	METAL CHIP	1K	5%	1/10W	

RADIO | RELAY | VOLUME | CLV (MD)

Ref. No.	Part No.	Description	Remark
R30	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R31	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R32	1-216-077-00	METAL CHIP 15K 5% 1/10W	
R33	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R34	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R37	1-216-025-00	METAL CHIP 100 5% 1/10W	
R41	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R42	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R43	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R45	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R46	1-216-689-11	METAL CHIP 39K 0.5% 1/10W	
R47	1-216-025-00	METAL CHIP 100 5% 1/10W	
R48	1-216-017-00	METAL CHIP 47 5% 1/10W	
R51	1-216-025-00	METAL CHIP 100 5% 1/10W	
R52	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R53	1-216-295-00	METAL CHIP 0 5% 1/10W	
		< TRANSFORMER >	
T1	1-416-015-21	TRANSFORMER, IF	
		< TEST PIN >	
TP1	1-536-354-00	POST PIN (US,Canadian)	
		< VIBRATOR >	
X1	1-579-574-21	VIBRATOR, CRYSTAL (7.2MHz)	
************	************	************************	************
*	1-647-781-21	RELAY BOARD, COMPLETE *********************	
		< CONNECTOR >	
* CN551	1-564-718-11	PIN, CONNECTOR (SMALL TYPE) 2P	
* CN552	1-569-900-11	SOCKET, CONNECTOR 4P	
************	************	************************	************
*	1-649-640-11	VOLUME BOARD ************	
		< CAPACITOR >	
C401	1-124-584-00	ELECT 100uF 20% 10V	
C402	1-163-038-00	CERAMIC CHIP 0.1uF 25V	
C403	1-163-038-00	CERAMIC CHIP 0.1uF 25V	
		< CONNECTOR >	
* CN401	1-564-712-11	PIN, CONNECTOR (SMALL TYPE)10P	
		< IC >	
IC401	8-759-962-08	IC BA6208	

Ref. No.	Part No.	Description	Remark
		< COIL >	
L401	1-408-080-00	INDUCTOR 100uH	
L402	1-408-080-00	INDUCTOR 100uH	
L403	1-408-080-00	INDUCTOR 100uH	
		< VARIABLE RESISTOR >	
RV301	1-241-840-11	RES, VAR, CARBON 20K (VOLUME)	
************	************	************************	************
	A-3275-714-A	CLV BOARD, (MD) COMPLETE ***********************	
	1-645-921-11	CLV FLEXIBLE BOARD	
	1-649-066-11	RELAY (B) FLEXIBLE BOARD	
	3-831-441-11	CUSHION (B)	
		< CAPACITOR >	
C701	1-164-227-11	CERAMIC CHIP 0.022uF 10% 25V	
C702	1-163-809-11	CERAMIC CHIP 0.047uF 10% 25V	
C703	1-164-227-11	CERAMIC CHIP 0.022uF 10% 25V	
C704	1-164-005-11	CERAMIC CHIP 0.47uF 25V	
C705	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
C706	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
C707	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
C708	1-162-967-11	CERAMIC CHIP 0.0033uF 10% 50V	
C709	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V	
C710	1-164-005-11	CERAMIC CHIP 0.47uF 25V	
C711	1-164-360-11	CERAMIC CHIP 0.1uF 16V	
		< CONNECTOR >	
CN701	1-573-355-11	CONNECTOR, FFC/FPC 15P	
CN702	1-573-347-11	CONNECTOR, FFC/FPC 7P	
		< IC >	
IC701	8-759-098-52	IC CXA-8027N-ELL2000	
		< RESISTOR >	
R701	1-218-716-11	METAL CHIP 10K 0.50% 1/16W	
R702	1-218-716-11	METAL CHIP 10K 0.50% 1/16W	
R703	1-216-815-11	METAL CHIP 330 5% 1/16W	
R704	1-217-671-11	METAL CHIP 1 5% 1/10W	
R705	1-217-671-11	METAL CHIP 1 5% 1/10W	
R706	1-216-827-11	METAL CHIP 3.3K 5% 1/16W	
R707	1-216-857-11	METAL CHIP 1M 5% 1/16W	
		< SWITCH >	
S701	1-692-363-11	SWITCH, PUSH (1 KEY) (DISCPRO)	
S702	1-692-273-11	SWITCH, PUSH (1 KEY) (RFLCT)	
S703	1-572-467-31	SWITCH, PUSH (1 KEY) (LS)	

Ref. No.	Part No.	Description	Remark
**			
*	A-3275-715-A	CONTROL BOARD, (MD) COMPLETE ****************************	
		< CAPACITOR >	
C102	1-162-927-11	CERAMIC CHIP 100PF 5% 50V	
C103	1-135-180-21	TANTALUM CHIP 3.3uF 20% 6.3V	
C104	1-104-630-11	TANTAL. CHIP 33uF 20% 6.3V	
C105	1-162-957-11	CERAMIC CHIP 220PF 5% 50V	
C106	1-162-927-11	CERAMIC CHIP 100PF 5% 50V	
C107	1-162-952-11	CERAMIC CHIP 82PF 5% 50V	
C109	1-135-180-21	TANTALUM CHIP 3.3uF 20% 6.3V	
C202	1-162-927-11	CERAMIC CHIP 100PF 5% 50V	
C203	1-135-180-21	TANTALUM CHIP 3.3uF 20% 6.3V	
C204	1-104-630-11	TANTAL. CHIP 33uF 20% 6.3V	
C205	1-162-957-11	CERAMIC CHIP 220PF 5% 50V	
C206	1-162-927-11	CERAMIC CHIP 100PF 5% 50V	
C207	1-162-952-11	CERAMIC CHIP 82PF 5% 50V	
C209	1-135-180-21	TANTALUM CHIP 3.3uF 20% 6.3V	
C301	1-135-263-21	TANTAL. CHIP 10uF 20% 10V	
C303	1-135-232-11	TANTAL. CHIP 10uF 20% 16V	
C357	1-135-263-21	TANTAL. CHIP 10uF 20% 10V	
C358	1-135-263-21	TANTAL. CHIP 10uF 20% 10V	
C813	1-164-346-11	CERAMIC CHIP 1uF 16V	
C901	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C902	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C903	1-104-611-11	CAP,CHIP MICA 1500PF	
C904	1-135-265-21	TANTAL. CHIP 33uF 20% 10V	
C905	1-164-336-11	CERAMIC CHIP 0.33uF 25V	
C906	1-135-149-21	TANTALUM CHIP 2.2uF 20% 10V	
C907	1-135-070-00	TANTALUM CHIP 0.1uF 10% 35V	
C908	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
C909	1-135-240-21	TANTAL. CHIP 47uF 20% 10V	
C910	1-162-967-11	CERAMIC CHIP 0.0033uF 10% 50V	
C911	1-164-336-11	CERAMIC CHIP 0.33uF 25V	
C912	1-135-240-21	TANTAL. CHIP 47uF 20% 10V	
C913	1-162-965-11	CERAMIC CHIP 0.0015uF 10% 50V	
C914	1-162-967-11	CERAMIC CHIP 0.0033uF 10% 50V	
C915	1-135-240-21	TANTAL. CHIP 47uF 20% 10V	
C5029	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
		< CONNECTOR >	
CN302	1-573-915-11	CONNECTOR, FFC/FPC (ZIF) 6P	
CN303	1-580-056-21	PIN, CONNECTOR 3P	
CN801	1-573-915-11	CONNECTOR, FFC/FPC (ZIF) 6P	
CN802	1-566-532-11	CONNECTOR, FPC (ZIF) 16P	
CN803	1-573-916-11	CONNECTOR, FFC/FPC (ZIF) 7P	
CN804	1-573-370-21	CONNECTOR, FFC/FPC 30P	
CN901	1-573-346-21	CONNECTOR, FFC/FPC 6P	
* CN902	1-580-055-21	PIN, CONNECTOR 2P	
		< DIODE >	
D101	8-719-017-58	DIODE MA8068	
D201	8-719-017-58	DIODE MA8068	
D901	8-719-210-56	DIODE EC10QS10	
D902	8-719-210-56	DIODE EC10QS10	
D903	8-719-210-56	DIODE EC10QS10	
D904	8-719-210-56	DIODE EC10QS10	
D905	8-719-210-56	DIODE EC10QS10	
D906	8-719-210-56	DIODE EC10QS10	
D907	8-719-975-33	DIODE RB110C	
		< IC >	
IC301	8-759-700-62	IC NJM4562D	
IC901	8-759-095-65	IC TC74ACT540FS	
IC902	8-759-095-67	IC TC74ACT541FS	
IC904	8-759-521-35	IC TL5001CD	
IC905	8-759-031-84	IC SC7S04F	
		< COIL >	
L901	1-402-831-21	COIL, CHOKE 68uH	
		< LINE FILTER >	
LF303	1-402-984-11	FILTER, COMMON MODE	
		< TRANSISTOR >	
Q104	8-729-144-16	TRANSISTOR 2SD2228-D44D45	
Q204	8-729-144-16	TRANSISTOR 2SD2228-D44D45	
Q308	8-729-144-16	TRANSISTOR 2SD2228-D44D45	
Q512	8-729-922-10	TRANSISTOR 2SA1577-QR	
Q901	8-729-018-75	TRANSISTOR 2SJ278MYTR	
Q902	8-729-018-75	TRANSISTOR 2SJ278MYTR	
Q903	8-729-017-65	TRANSISTOR 2SK1764KYTR	
Q904	8-729-017-65	TRANSISTOR 2SK1764KYTR	
Q905	8-729-923-45	TRANSISTOR 2SB1308-QR	
Q906	8-729-425-18	TRANSISTOR XN4504	
Q907	8-729-920-XX	TRANSISTOR DTA114EU	
Q908	8-729-907-00	TRANSISTOR DTC114EU	
		< RESISTOR >	
R105	1-216-795-11	METAL CHIP 6.8K 0.50% 1/16W	
R107	1-218-883-11	METAL CHIP 33K 0.50% 1/16W	
R108	1-218-727-11	METAL CHIP 30K 0.50% 1/16W	
R109	1-218-698-11	METAL CHIP 1.8K 0.50% 1/16W	
R110	1-216-812-11	METAL CHIP 180 5% 1/16W	
R111	1-216-857-11	METAL CHIP 1M 5% 1/16W	
R141	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R155	1-216-845-11	METAL CHIP 100K 5% 1/16W	
R161	1-216-817-11	METAL CHIP 470 5% 1/16W	
R205	1-216-795-11	METAL CHIP 6.8K 0.50% 1/16W	

CONTROL (MD) | MAIN (MD)

Ref.No.	Part No.	Description	Remark
R207	1-218-883-11	METAL CHIP 33K 0.50% 1/16W	
R208	1-218-727-11	METAL CHIP 30K 0.50% 1/16W	
R209	1-218-698-11	METAL CHIP 1.8K 0.50% 1/16W	
R210	1-216-812-11	METAL CHIP 180 5% 1/16W	
R211	1-216-857-11	METAL CHIP 1M 5% 1/16W	
R241	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R255	1-216-845-11	METAL CHIP 100K 5% 1/16W	
R261	1-216-817-11	METAL CHIP 470 5% 1/16W	
R301	1-218-745-11	METAL CHIP 160K 0.50% 1/16W	
R302	1-216-845-11	METAL CHIP 100K 5% 1/16W	
R368	1-216-845-11	METAL CHIP 100K 5% 1/16W	
R831	1-216-295-00	METAL CHIP 0 5% 1/10W	
R853	1-218-725-11	METAL CHIP 24K 0.50% 1/16W	
R854	1-218-675-11	METAL CHIP 200 0.50% 1/16W	
R855	1-218-676-11	METAL CHIP 220 0.50% 1/16W	
R856	1-216-814-11	METAL CHIP 270 5% 1/16W	
R857	1-218-680-11	METAL CHIP 330 0.50% 1/16W	
R858	1-218-482-11	METAL CHIP 430 0.50% 1/16W	
R859	1-218-289-11	METAL CHIP 510 0.50% 1/16W	
R860	1-220-373-11	METAL CHIP 620 0.50% 1/16W	
R861	1-218-675-11	METAL CHIP 200 0.50% 1/16W	
R862	1-218-676-11	METAL CHIP 220 0.50% 1/16W	
R863	1-216-814-11	METAL CHIP 270 5% 1/16W	
R865	1-218-680-11	METAL CHIP 330 0.50% 1/16W	
R868	1-218-482-11	METAL CHIP 430 0.50% 1/16W	
R870	1-218-289-11	METAL CHIP 510 0.50% 1/16W	
R872	1-220-373-11	METAL CHIP 620 0.50% 1/16W	
R873	1-216-820-11	METAL CHIP 820 5% 1/16W	
R874	1-218-270-11	METAL CHIP 1.1K 0.50% 1/16W	
R875	1-216-823-11	METAL CHIP 1.5K 5% 1/16W	
R877	1-218-701-11	METAL CHIP 2.4K 0.50% 1/16W	
R878	1-218-706-11	METAL CHIP 3.9K 0.50% 1/16W	
R879	1-218-344-11	METAL CHIP 7.5K 0.50% 1/16W	
R901	1-216-845-11	METAL CHIP 100K 5% 1/16W	
R902	1-216-845-11	METAL CHIP 100K 5% 1/16W	
R903	1-216-845-11	METAL CHIP 100K 5% 1/16W	
R904	1-216-845-11	METAL CHIP 100K 5% 1/16W	
R905	1-217-806-11	METAL GLAZE 1 5% 1/8W	
R906	1-217-806-11	METAL GLAZE 1 5% 1/8W	
R907	1-216-134-00	METAL CHIP 2.2 5% 1/8W	
R908	1-216-843-11	METAL CHIP 68K 5% 1/16W	
R909	1-218-295-11	METAL GLAZE 43K 5% 1/16W	
R910	1-216-853-11	METAL CHIP 470K 5% 1/16W	
R911	1-216-829-11	METAL CHIP 4.7K 5% 1/16W	
R913	1-216-186-00	METAL GLAZE 330 5% 1/8W	
R914	1-218-724-11	METAL CHIP 22K 0.50% 1/16W	
R915	1-218-344-11	METAL CHIP 7.5K 0.50% 1/16W	
R918	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R919	1-216-829-11	METAL CHIP 4.7K 5% 1/16W	

Ref.No.	Part No.	Description	Remark
		< SWITCH >	
S811	1-572-473-31	SWITCH, TACTIL (❚❚)	
S812	1-692-088-11	SWITCH, TACTIL (▲)	
S813	1-572-473-31	SWITCH, TACTIL (■)	
S814	1-572-473-31	SWITCH, TACTIL (DATE)	
S815	1-572-473-31	SWITCH, TACTIL (▶)	
S816	1-572-473-31	SWITCH, TACTIL (▶▶)	
S817	1-572-473-31	SWITCH, TACTIL (◀◀)	
S818	1-572-473-31	SWITCH, TACTIL (ENTER/REPEAT)	
S819	1-572-473-31	SWITCH, TACTIL (⏮)	
S820	1-572-473-31	SWITCH, TACTIL (⏭)	
S821	1-572-473-31	SWITCH, TACTIL (DISC NAME)	
S822	1-572-473-31	SWITCH, TACTIL (TRACK NAME)	
S823	1-572-473-31	SWITCH, TACTIL (0)	
S824	1-572-473-31	SWITCH, TACTIL (1)	
S825	1-572-473-31	SWITCH, TACTIL (2)	
S826	1-572-473-31	SWITCH, TACTIL (3)	
S827	1-572-473-31	SWITCH, TACTIL (4)	
S828	1-572-473-31	SWITCH, TACTIL (5)	
S829	1-572-473-31	SWITCH, TACTIL (6)	
S830	1-572-473-31	SWITCH, TACTIL (7)	
S831	1-572-473-31	SWITCH, TACTIL (8)	
S832	1-572-473-31	SWITCH, TACTIL (9)	

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Ref.No.	Part No.	Description	Remark
*	A-3276-055-A	MAIN BOARD, (MD) COMPLETE ************************	
	2-123-861-01	SCREW, TAPPING, P1.7X3	
	3-831-441-XX	SPACER	
	3-831-441-11	CUSHION (B)	
	4-955-523-03	HOLDER (TERMINAL)	
	4-955-524-01	CONTACT, PLUS	
	4-955-525-01	CONTACT, MINUS	
	4-955-534-01	TERMINAL BOARD	
	4-957-306-41	CUSHION	
	9-911-841-XX	CUSHION, CASSETTE LID	
		< CAPACITOR >	
C101	1-162-953-11	CERAMIC CHIP 100PF 5% 50V	
C110	1-135-237-11	TANTAL. CHIP 2.2uF 20% 6.3V	
C112	1-135-237-11	TANTAL. CHIP 2.2uF 20% 6.3V	
C113	1-135-263-21	TANTAL. CHIP 10uF 20% 10V	
C115	1-164-473-11	CERAMIC CHIP 820PF 10% 50V	
C116	1-162-927-11	CERAMIC CHIP 100PF 5% 50V	
C117	1-162-928-11	CERAMIC CHIP 120PF 5% 50V	
C118	1-162-928-11	CERAMIC CHIP 120PF 5% 50V	
C119	1-162-925-11	CERAMIC CHIP 68PF 5% 50V	
C120	1-162-925-11	CERAMIC CHIP 68PF 5% 50V	
C121	1-137-294-11	FILM CHIP 0.01uF 5% 16V	

Ref. No.	Part No.	Description	Remark
C122	1-135-181-21	TANTALUM CHIP 4.7uF 20% 6.3V	
C123	1-135-091-91	TANTAL. CHIP 1uF 20% 16V	
C124	1-162-953-11	CERAMIC CHIP 100PF 5% 50V	
C125	1-162-966-11	CERAMIC CHIP 0.0022uF 10% 50V	
C126	1-135-335-11	TANTAL. CHIP 100uF 20% 4V	
C127	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
C128	1-135-335-11	TANTAL. CHIP 100uF 20% 4V	
C129	1-162-925-11	CERAMIC CHIP 68PF 5% 50V	
C130	1-162-924-11	CERAMIC CHIP 56PF 5% 50V	
C131	1-162-965-11	CERAMIC CHIP 0.0015uF 10% 50V	
C132	1-164-346-11	CERAMIC CHIP 1uF 16V	
C134	1-162-959-11	CERAMIC CHIP 330PF 5% 50V	
C135	1-135-263-21	TANTAL. CHIP 10uF 20% 10V	
C136	1-135-237-11	TANTAL. CHIP 2.2uF 20% 6.3V	
C137	1-162-957-11	CERAMIC CHIP 220PF 5% 50V	
C138	1-162-922-11	CERAMIC CHIP 39PF 5% 50V	
C140	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
C141	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
C201	1-162-953-11	CERAMIC CHIP 100PF 5% 50V	
C210	1-135-237-11	TANTAL. CHIP 2.2uF 20% 6.3V	
C212	1-135-237-11	TANTAL. CHIP 2.2uF 20% 6.3V	
C215	1-164-473-11	CERAMIC CHIP 820PF 10% 50V	
C216	1-162-927-11	CERAMIC CHIP 100PF 5% 50V	
C217	1-162-928-11	CERAMIC CHIP 120PF 5% 50V	
C218	1-162-928-11	CERAMIC CHIP 120PF 5% 50V	
C219	1-162-925-11	CERAMIC CHIP 68PF 5% 50V	
C220	1-162-925-11	CERAMIC CHIP 68PF 5% 50V	
C221	1-137-294-11	FILM CHIP 0.01uF 5% 16V	
C222	1-135-181-21	TANTALUM CHIP 4.7uF 20% 6.3V	
C223	1-135-091-91	TANTAL. CHIP 1uF 20% 16V	
C224	1-162-953-11	CERAMIC CHIP 100PF 5% 50V	
C225	1-162-966-11	CERAMIC CHIP 0.0022uF 10% 50V	
C226	1-135-335-11	TANTAL. CHIP 100uF 20% 4V	
C227	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
C228	1-135-335-11	TANTAL. CHIP 100uF 20% 4V	
C229	1-162-925-11	CERAMIC CHIP 68PF 5% 50V	
C230	1-162-924-11	CERAMIC CHIP 56PF 5% 50V	
C231	1-162-965-11	CERAMIC CHIP 0.0015uF 10% 50V	
C232	1-164-346-11	CERAMIC CHIP 1uF 16V	
C234	1-162-959-11	CERAMIC CHIP 330PF 5% 50V	
C235	1-135-263-21	TANTAL. CHIP 10uF 20% 10V	
C236	1-135-237-11	TANTAL. CHIP 2.2uF 20% 6.3V	
C237	1-162-957-11	CERAMIC CHIP 220PF 5% 50V	
C238	1-162-922-11	CERAMIC CHIP 39PF 5% 50V	
C240	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
C241	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
C305	1-135-264-21	TANTAL. CHIP 22uF 20% 10V	
C306	1-164-360-11	CERAMIC CHIP 0.1uF 16V	
C308	1-164-360-11	CERAMIC CHIP 0.1uF 16V	
C309	1-135-091-91	TANTAL. CHIP 1uF 20% 16V	
C310	1-135-334-11	TANTAL. CHIP 100uF 20% 6.3V	
C311	1-135-263-21	TANTAL. CHIP 10uF 20% 10V	
C312	1-164-360-11	CERAMIC CHIP 0.1uF 16V	
C313	1-164-173-11	CERAMIC CHIP 0.0039uF 10% 50V	
C314	1-164-360-11	CERAMIC CHIP 0.1uF 16V	
C315	1-135-264-21	TANTAL. CHIP 22uF 20% 10V	
C316	1-135-263-21	TANTAL. CHIP 10uF 20% 10V	
C317	1-135-264-21	TANTAL. CHIP 22uF 20% 10V	
C318	1-135-263-21	TANTAL. CHIP 10uF 20% 10V	
C319	1-164-360-11	CERAMIC CHIP 0.1uF 16V	
C320	1-164-360-11	CERAMIC CHIP 0.1uF 16V	
C321	1-135-181-21	TANTALUM CHIP 4.7uF 20% 6.3V	
C322	1-104-630-11	TANTAL. CHIP 33uF 20% 6.3V	
C323	1-164-360-11	CERAMIC CHIP 0.1uF 16V	
C324	1-164-360-11	CERAMIC CHIP 0.1uF 16V	
C325	1-135-263-21	TANTAL. CHIP 10uF 20% 10V	
C326	1-164-360-11	CERAMIC CHIP 0.1uF 16V	
C327	1-104-630-11	TANTAL. CHIP 33uF 20% 6.3V	
C328	1-164-360-11	CERAMIC CHIP 0.1uF 16V	
C329	1-162-953-11	CERAMIC CHIP 100PF 5% 50V	
C330	1-164-360-11	CERAMIC CHIP 0.1uF 16V	
C331	1-135-264-21	TANTAL. CHIP 22uF 20% 10V	
C332	1-135-181-21	TANTALUM CHIP 4.7uF 20% 6.3V	
C333	1-135-263-21	TANTAL. CHIP 10uF 20% 10V	
C334	1-135-181-21	TANTALUM CHIP 4.7uF 20% 6.3V	
C335	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
C336	1-164-360-11	CERAMIC CHIP 0.1uF 16V	
C337	1-164-489-11	CERAMIC CHIP 0.22uF 10% 16V	
C338	1-135-264-21	TANTAL. CHIP 22uF 20% 10V	
C339	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
C341	1-135-264-21	TANTAL. CHIP 22uF 20% 10V	
C342	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
C343	1-164-360-11	CERAMIC CHIP 0.1uF 16V	
C344	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
C345	1-135-240-21	TANTAL. CHIP 47uF 20% 10V	
C346	1-135-264-21	TANTAL. CHIP 22uF 20% 10V	
C347	1-135-181-21	TANTALUM CHIP 4.7uF 20% 6.3V	
C350	1-164-361-11	CERAMIC CHIP 0.047uF 16V	
C351	1-104-630-11	TANTAL. CHIP 33uF 20% 6.3V	
C354	1-135-263-21	TANTAL. CHIP 10uF 20% 10V	
C356	1-164-361-11	CERAMIC CHIP 0.047uF 16V	
C359	1-164-505-11	CERAMIC CHIP 2.2uF 16V	
C360	1-164-505-11	CERAMIC CHIP 2.2uF 16V	
C361	1-164-361-11	CERAMIC CHIP 0.047uF 16V	
C362	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
C363	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C364	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C366	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
C426	1-135-263-21	TANTAL. CHIP 10uF 20% 10V	
C470	1-164-505-11	CERAMIC CHIP 2.2uF 16V	

MAIN (MD)

Ref.No.	Part No.	Description			Remark
C471	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C472	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C474	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C475	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C501	1-135-264-21	TANTAL. CHIP	22uF	20%	10V
C502	1-135-264-21	TANTAL. CHIP	22uF	20%	10V
C503	1-135-264-21	TANTAL. CHIP	22uF	20%	10V
C504	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C505	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C506	1-135-232-11	TANTAL. CHIP	10uF	20%	16V
C507	1-135-091-91	TANTAL. CHIP	1uF	20%	16V
C508	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C509	1-135-264-21	TANTAL. CHIP	22uF	20%	10V
C510	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C511	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C512	1-164-490-11	CERAMIC CHIP	0.068uF		16V
C513	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C514	1-162-958-11	CERAMIC CHIP	270PF	5%	50V
C515	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C516	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C517	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C518	1-162-958-11	CERAMIC CHIP	270PF	5%	50V
C519	1-135-264-21	TANTAL. CHIP	22uF	20%	10V
C520	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C521	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V
C522	1-135-073-00	TANTALUM CHIP	0.33uF	10%	35V
C523	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C524	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C525	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C526	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C527	1-162-979-11	CERAMIC CHIP	0.0027uF	10%	50V
C529	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C530	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C531	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C532	1-135-264-21	TANTAL. CHIP	22uF	20%	10V
C533	1-135-264-21	TANTAL. CHIP	22uF	20%	10V
C534	1-164-490-11	CERAMIC CHIP	0.068uF		16V
C535	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C536	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C537	1-135-181-21	TANTALUM CHIP	4.7uF	20%	6.3V
C538	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C539	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C540	1-164-346-11	CERAMIC CHIP	1uF		16V
C541	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C542	1-164-346-11	CERAMIC CHIP	1uF		16V
C543	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C544	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C545	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C546	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C547	1-162-953-11	CERAMIC CHIP	100PF	5%	50V

Ref.No.	Part No.	Description			Remark
C548	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C549	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C550	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C551	1-162-952-11	CERAMIC CHIP	82PF	5%	50V
C552	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C553	1-135-263-21	TANTAL. CHIP	10uF	20%	10V
C554	1-135-263-21	TANTAL. CHIP	10uF	20%	10V
C555	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C556	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C557	1-104-630-11	TANTAL. CHIP	33uF	20%	6.3V
C558	1-104-630-11	TANTAL. CHIP	33uF	20%	6.3V
C559	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C561	1-135-264-21	TANTAL. CHIP	22uF	20%	10V
C563	1-164-361-11	CERAMIC CHIP	0.047uF		16V
C564	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C565	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C567	1-164-361-11	CERAMIC CHIP	0.047uF		16V
C568	1-135-264-21	TANTAL. CHIP	22uF	20%	10V
C569	1-135-091-91	TANTAL. CHIP	1uF	20%	16V
C570	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C571	1-164-346-11	CERAMIC CHIP	1uF		16V
C572	1-135-264-21	TANTAL. CHIP	22uF	20%	10V
C573	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C574	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C578	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C579	1-135-224-11	TANTAL. CHIP	10uF	10%	25V
C580	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C581	1-135-263-21	TANTAL. CHIP	10uF	20%	10V
C582	1-135-208-11	TANTAL. CHIP	1uF	10%	10V
C583	1-135-263-21	TANTAL. CHIP	10uF	20%	10V
C584	1-163-986-00	CERAMIC CHIP	0.027uF	10%	25V
C586	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C587	1-164-346-11	CERAMIC CHIP	1uF		16V
C588	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C589	1-164-346-11	CERAMIC CHIP	1uF		16V
C590	1-164-346-11	CERAMIC CHIP	1uF		16V
C591	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C592	1-164-346-11	CERAMIC CHIP	1uF		16V
C594	1-135-264-21	TANTAL. CHIP	22uF	20%	10V
C595	1-135-264-21	TANTAL. CHIP	22uF	20%	10V
C596	1-135-208-11	TANTAL. CHIP	1uF	10%	10V
C597	1-135-263-21	TANTAL. CHIP	10uF	20%	10V
C598	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C599	1-135-232-11	TANTAL. CHIP	10uF	20%	16V
C601	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C602	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C603	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C604	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C605	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C606	1-163-115-00	CERAMIC CHIP	82PF	5%	50V

Ref.No.	Part No.	Description			Remark
C607	1-162-910-11	CERAMIC CHIP	5PF	0.25PF	50V
C608	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C609	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C610	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C611	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C612	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C613	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C614	1-164-001-11	CERAMIC CHIP	150PF	5%	50V
C615	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C616	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C617	1-104-629-11	TANTAL. CHIP	15uF	20%	6.3V
C618	1-135-264-21	TANTAL. CHIP	22uF	20%	10V
C620	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C621	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C622	1-135-264-21	TANTAL. CHIP	22uF	20%	10V
C623	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C624	1-163-986-00	CERAMIC CHIP	0.027uF	10%	25V
C626	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C627	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C628	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C629	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C630	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C631	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C632	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C633	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C634	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C635	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C636	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C637	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C638	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C639	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C640	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C641	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C642	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C643	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C644	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C645	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C650	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C651	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C652	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C801	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C802	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C803	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C807	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C808	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C809	1-135-264-21	TANTAL. CHIP	22uF	20%	10V
C810	1-164-346-11	CERAMIC CHIP	1uF		16V
C811	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C812	1-164-346-11	CERAMIC CHIP	1uF		16V
C814	1-164-346-11	CERAMIC CHIP	1uF		16V
C816	1-135-334-11	TANTAL. CHIP	100uF	20%	6.3V
C817	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C818	1-135-263-21	TANTAL. CHIP	10uF	20%	10V
C819	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C820	1-135-263-21	TANTAL. CHIP	10uF	20%	10V
C821	1-135-181-21	TANTALUM CHIP	4.7uF	20%	6.3V
C822	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C824	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C825	1-135-263-21	TANTAL. CHIP	10uF	20%	10V
C826	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C827	1-164-346-11	CERAMIC CHIP	1uF		16V
C828	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C829	1-135-263-21	TANTAL. CHIP	10uF	20%	10V
C830	1-164-346-11	CERAMIC CHIP	1uF		16V
C831	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C832	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C833	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C5001	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C5012	1-164-346-11	CERAMIC CHIP	1uF		16V
C5013	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V
C5014	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V
C5015	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5016	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C5017	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C5018	1-135-334-11	TANTAL. CHIP	100uF	20%	6.3V
C5019	1-135-334-11	TANTAL. CHIP	100uF	20%	6.3V
C5020	1-135-334-11	TANTAL. CHIP	100uF	20%	6.3V
C5022	1-164-363-11	CERAMIC CHIP	560PF	5%	50V
C5023	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5025	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5026	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C5027	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C5028	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C5030	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C5031	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C5032	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C5033	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C5034	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5035	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C5036	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C5037	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C5038	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C5039	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5040	1-164-336-11	CERAMIC CHIP	0.33uF		25V
C5041	1-164-336-11	CERAMIC CHIP	0.33uF		25V
C5044	1-164-336-11	CERAMIC CHIP	0.33uF		25V
C5045	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C5046	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C5047	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C5048	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V

MAIN (MD)

Ref. No.	Part No.	Description	Remark
C5049	1-135-232-11	TANTAL. CHIP 10uF 20% 16V	
C5050	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C5051	1-135-264-21	TANTAL. CHIP 22uF 20% 10V	
C5052	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C5053	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C5054	1-164-360-11	CERAMIC CHIP 0.1uF 16V	
C5055	1-135-091-91	TANTAL. CHIP 1uF 20% 16V	
C5056	1-162-969-11	CERAMIC CHIP 0.0068uF 10% 25V	
C5057	1-135-237-11	TANTAL. CHIP 2.2uF 20% 6.3V	
C5058	1-135-264-21	TANTAL. CHIP 22uF 20% 10V	
C5059	1-163-809-11	CERAMIC CHIP 0.047uF 10% 25V	
C8023	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V	
		< CONNECTOR >	
CN401	1-573-315-21	CONNECTOR, BOARD TO BOARD 30P	
CN501	1-573-927-11	CONNECTOR, FFC/FPC (ZIF) 18P	
CN502	1-573-355-11	CONNECTOR, FFC/FPC 15P	
CN503	1-573-346-21	CONNECTOR, FFC/FPC 6P	
CN602	1-573-346-21	CONNECTOR, FFC/FPC 6P	
CN801	1-573-370-21	CONNECTOR, FFC/FPC 30P	
		< DIODE >	
D301	8-719-941-23	DIODE DA204U	
D304	8-719-404-46	DIODE MA110	
D305	8-719-404-46	DIODE MA110	
D307	8-719-941-86	DIODE DAN202U	
D310	8-719-404-46	DIODE MA110	
D311	8-719-941-09	DIODE DAP202U	
D401	8-719-974-51	DIODE SB20-03P	
D406	8-719-941-86	DIODE DAN202U	
D420	8-719-106-88	DIODE RD15M-B1	
D421	8-719-106-88	DIODE RD15M-B1	
D422	8-719-106-88	DIODE RD15M	
D423	8-719-106-88	DIODE RD15M	
D424	8-719-404-46	DIODE MA110	
D502	8-719-420-51	DIODE MA729	
D503	8-719-938-78	DIODE SB10-05PCP	
D504	8-719-023-69	DIODE SB007T03Q	
D505	8-719-031-17	DIODE SB007-03Q-TL	
D506	8-719-941-23	DIODE DA204U	
D507	8-719-420-51	DIODE MA729	
D508	8-719-404-46	DIODE MA110	
D509	8-719-404-46	DIODE MA110	
D511	8-719-404-46	DIODE MA110	
D512	8-719-404-46	DIODE MA110	
D515	8-719-941-23	DIODE DA204U	
D601	8-719-981-25	DIODE KV1450	
D602	8-719-981-25	DIODE KV1450	
D803	8-719-941-09	DIODE DAP202U	
D804	8-719-941-86	DIODE DAN202U	

Ref. No.	Part No.	Description	Remark
D806	8-719-420-51	DIODE MA729	
D807	8-719-938-75	DIODE SB05-05CP	
D808	8-719-938-75	DIODE SB05-05CP	
D809	8-719-421-27	DIODE MA728	
D810	8-719-420-51	DIODE MA729	
D811	8-719-420-51	DIODE MA729	
D812	8-719-941-23	DIODE DA204U	
		< FERRITE BEAD >	
FB103	1-543-949-11	BEAD, FERRITE (CHIP)	
FB104	1-543-949-11	BEAD, FERRITE (CHIP)	
FB203	1-543-949-11	BEAD, FERRITE (CHIP)	
FB204	1-543-949-11	BEAD, FERRITE (CHIP)	
FB301	1-543-949-11	BEAD, FERRITE (CHIP)	
FB302	1-543-949-11	BEAD, FERRITE (CHIP)	
FB303	1-543-949-11	BEAD, FERRITE (CHIP)	
FB304	1-543-949-11	BEAD, FERRITE (CHIP)	
FB307	1-543-949-11	BEAD, FERRITE (CHIP)	
FB308	1-543-949-11	BEAD, FERRITE (CHIP)	
FB310	1-543-948-11	BEAD, FERRITE (CHIP)	
FB313	1-543-949-11	BEAD, FERRITE (CHIP)	
FB314	1-543-949-11	BEAD, FERRITE (CHIP)	
FB501	1-543-949-11	BEAD, FERRITE (CHIP)	
FB603	1-543-949-11	BEAD, FERRITE (CHIP)	
FB604	1-543-954-21	BEAD, FERRITE (CHIP)	
FB606	1-543-949-11	BEAD, FERRITE (CHIP)	
FB607	1-543-949-11	BEAD, FERRITE (CHIP)	
FB608	1-543-949-11	BEAD, FERRITE (CHIP)	
FB609	1-543-949-11	BEAD, FERRITE (CHIP)	
FB610	1-543-949-11	BEAD, FERRITE (CHIP)	
		< IC >	
IC303	8-759-085-04	IC M51132FP-E1	
IC304	8-759-103-25	IC uPD4053BG	
IC305	8-759-080-34	IC TA75W01FU-TE12R	
IC306	8-759-080-34	IC TA75W01FU-TE12R	
IC307	8-759-097-92	IC NJM2100V	
IC308	8-759-097-92	IC NJM2100V	
IC309	8-759-085-06	IC AK4501-VS-E1	
IC310	8-759-097-92	IC NJM2100V	
IC311	8-759-510-56	IC BA3570FS	
IC312	8-759-234-77	IC TC4S66F	
IC314	8-759-097-92	IC NJM2100V	
IC315	8-759-161-52	IC S-81250PG-PD	
IC410	8-759-161-50	IC S-81240PG-PJ	
IC501	8-752-064-34	IC CXA1381R	
IC502	8-752-064-33	IC CXA1380N	
IC503	8-759-053-34	IC uPD74HC4053G	
IC504	8-759-053-34	IC uPD74HC4053G	
IC505	8-759-080-34	IC TA75W01FU-TE12R	

Ref. No.	Part No.	Description	Remark
IC506	8-759-035-26	IC SC7S08F	
IC507	8-752-055-94	IC CXA1602R	
		●	
IC508	8-759-053-34	IC uPD74HC4053G	
IC509	8-759-084-72	IC MPC1718FU	
IC510	8-759-031-84	IC SC7S04F	
IC511	8-759-710-79	IC NJM2107F	
IC512	8-759-710-79	IC NJM2107F	
IC513	8-759-234-77	IC TC4S66F	
IC514	8-759-087-73	IC S-80745AN-D9	
IC515	8-759-234-20	IC TC7S08F	
IC516	8-759-082-61	IC TC4W53FU-TE12R	
IC517	8-759-082-61	IC TC4W53FU-TE12R	
IC518	8-759-710-79	IC NJM2107F	
IC519	8-759-234-77	IC TC4S66F	
IC520	8-759-710-79	IC NJM2107F	
IC521	8-759-157-68	IC PGLAD-048-ELL2000	
IC522	8-759-082-61	IC TC4W53FU-TE12R	
IC601	8-752-352-18	IC CXD2525R	
IC602	8-752-354-57	IC CXD2526Q	
IC603	8-752-356-18	IC CXD2527R-1	
IC604	8-752-355-96	IC CXD2527R	
IC605	8-752-360-59	IC CXK414400TM-12U	
IC606	8-759-082-61	IC TC4W53FU-TE12R	
IC607	8-759-710-79	IC NJM2107F	
IC608	8-759-097-92	IC NJM2100V	
IC609	8-759-083-94	IC TC7W74FU	
IC610	8-759-234-20	IC TC7S08F	
IC611	8-759-081-84	IC TC7S04F	
IC612	8-759-083-94	IC TC7W74FU	
IC613	8-759-035-93	IC SC7S32F	
IC614	8-759-035-26	IC SC7S08F	
IC615	8-759-035-93	IC SC7S32F	
IC801	8-752-844-55	IC CXP81740-603Q	
IC802	8-759-908-81	IC MB3763PF	
IC803	8-759-056-84	IC S-8420AF	
IC804	8-759-087-73	IC S-80745AN-D9	
IC805	8-759-082-57	IC TC7W04FU-TE12L	
IC806	8-759-031-84	IC SC7S04F	
IC807	8-759-161-50	IC S-81240PG-PJ	
IC808	8-759-031-84	IC SC7S04F	
		< JACK >	
J401	1-580-428-11	JACK, DC	
		< COIL >	
L101	1-412-979-21	INDUCTOR 1uH	
L201	1-412-979-21	INDUCTOR 1uH	
L301	1-412-029-11	INDUCTOR CHIP 10uH	
L302	1-412-032-11	INDUCTOR CHIP 100uH	
L303	1-412-032-11	INDUCTOR CHIP 100uH	
L304	1-412-029-11	INDUCTOR CHIP 10uH	
L306	1-410-997-31	INDUCTOR CHIP 2.2uH	
L307	1-412-997-21	INDUCTOR 33uH	
L308	1-412-997-21	INDUCTOR 33uH	
L309	1-412-979-21	INDUCTOR 1uH	
L501	1-412-029-11	INDUCTOR CHIP 10uH	
L502	1-412-029-11	INDUCTOR CHIP 10uH	
L503	1-412-029-11	INDUCTOR CHIP 10uH	
L504	9-910-999-33	INDUCTOR 560UH	
L505	1-414-203-11	INDUCTOR 100uH	
L506	1-414-203-11	INDUCTOR 100uH	
L507	1-414-203-11	INDUCTOR 100uH	
L508	1-414-203-11	INDUCTOR 100uH	
L510	1-412-011-31	INDUCTOR CHIP 27uH	
L511	1-412-032-11	INDUCTOR CHIP 100uH	
L601	1-412-029-11	INDUCTOR CHIP 10uH	
L602	1-412-029-11	INDUCTOR CHIP 10uH	
L603	1-414-200-21	INDUCTOR 1uH	
L604	1-414-201-21	INDUCTOR 5.6uH	
L605	1-412-029-11	INDUCTOR CHIP 10uH	
L606	1-412-029-11	INDUCTOR CHIP 10uH	
		< LINE FILTER >	
LF301	1-402-984-11	FILTER, COMMON MODE	
LF302	1-402-984-11	FILTER, COMMON MODE	
LF304	1-402-984-11	FILTER, COMMON MODE	
LF401	1-402-951-11	COIL, LINE FILTER	
		< IC LINK >	
⚠PS401	1-533-282-21	LINK, IC	
		< TRANSISTOR >	
Q101	8-729-144-16	TRANSISTOR 2SD2228-D44D45	
Q102	8-729-144-16	TRANSISTOR 2SD2228-D44D45	
Q103	8-729-144-16	TRANSISTOR 2SD2228-D44D45	
Q105	8-729-144-16	TRANSISTOR 2SD2228-D44D45	
Q201	8-729-144-16	TRANSISTOR 2SD2228-D44D45	
Q202	8-729-144-16	TRANSISTOR 2SD2228-D44D45	
Q203	8-729-144-16	TRANSISTOR 2SD2228-D44D45	
Q205	8-729-144-16	TRANSISTOR 2SD2228-D44D45	
Q301	8-729-144-16	TRANSISTOR 2SD2228-D44D45	
Q302	8-729-907-39	TRANSISTOR IMD2	
Q303	8-729-906-33	TRANSISTOR DTC114YU	
Q304	8-729-906-33	TRANSISTOR DTC114YU	
Q306	8-729-907-39	TRANSISTOR IMD2	
Q307	8-729-907-39	TRANSISTOR IMD2	
Q309	8-729-402-84	TRANSISTOR XN4601	
Q310	8-729-402-84	TRANSISTOR XN4601	
Q311	8-729-905-12	TRANSISTOR DTA144EU	
Q312	8-729-924-31	TRANSISTOR DTA114WU	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

MAIN (MD)

Ref.No.	Part No.	Description		Remark
Q401	8-729-931-42	TRANSISTOR	DTC115EK	
Q402	8-729-931-42	TRANSISTOR	DTC115EK	
Q409	8-729-907-00	TRANSISTOR	DTC114EU	
Q445	8-729-924-31	TRANSISTOR	DTA114WU-T106	
Q446	8-729-905-12	TRANSISTOR	DTA144EU	
Q448	8-729-905-12	TRANSISTOR	DTA144EU	
Q449	8-729-924-65	TRANSISTOR	DTC123YU	
Q450	8-729-905-12	TRANSISTOR	DTA144EU	
Q451	8-729-924-65	TRANSISTOR	DTC123YU	
Q452	8-729-905-18	TRANSISTOR	DTC144EU	
Q501	8-729-101-07	TRANSISTOR	2SB798-DL	
Q502	8-729-216-22	TRANSISTOR	2SA1162	
Q503	8-729-922-10	TRANSISTOR	2SA1577-QR	
Q508	8-729-420-74	TRANSISTOR	2SD1328-RST	
Q509	8-729-905-61	TRANSISTOR	DTC124EU	
Q510	8-729-905-12	TRANSISTOR	DTA144EU	
Q512	8-729-905-61	TRANSISTOR	DTC124EU	
Q513	8-729-402-84	TRANSISTOR	XN4601	
Q516	8-729-924-68	TRANSISTOR	DTC114WU	
Q518	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q519	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q520	8-729-144-16	TRANSISTOR	2SD2228-D44D45	
Q801	8-729-905-12	TRANSISTOR	DTA144EU	
Q802	8-729-906-33	TRANSISTOR	DTC114YU	
Q803	8-729-905-18	TRANSISTOR	DTC144EU	
Q804	8-729-922-10	TRANSISTOR	2SA1577-QR	
Q805	8-729-905-18	TRANSISTOR	DTC144EU	
Q806	8-729-824-26	TRANSISTOR	2SA1338-5-TA	
Q807	8-729-905-12	TRANSISTOR	DTA144EU	

< RESISTOR >

Ref.No.	Part No.	Description				Remark
R101	1-216-817-11	METAL CHIP	470	5%	1/16W	
R103	1-218-732-11	METAL CHIP	47K	0.50%	1/16W	
R104	1-216-857-11	METAL CHIP	1M	5%	1/16W	
R112	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R113	1-218-738-11	METAL CHIP	82K	0.50%	1/16W	
R114	1-218-740-11	METAL CHIP	100K	0.50%	1/16W	
R115	1-218-721-11	METAL CHIP	16K	0.50%	1/16W	
R116	1-216-795-11	METAL CHIP	6.8K	0.50%	1/16W	
R117	1-218-716-11	METAL CHIP	10K	0.50%	1/16W	
R118	1-216-821-11	METAL CHIP	1K	5%	1/16W	
R119	1-216-821-11	METAL CHIP	1K	5%	1/16W	
R120	1-218-724-11	METAL CHIP	22K	0.50%	1/16W	
R121	1-218-724-11	METAL CHIP	22K	0.50%	1/16W	
R122	1-218-724-11	METAL CHIP	22K	0.50%	1/16W	
R123	1-218-724-11	METAL CHIP	22K	0.50%	1/16W	
R124	1-218-883-11	METAL CHIP	33K	0.50%	1/16W	
R125	1-218-883-11	METAL CHIP	33K	0.50%	1/16W	
R126	1-218-736-11	METAL CHIP	68K	0.50%	1/16W	
R127	1-218-736-11	METAL CHIP	68K	0.50%	1/16W	
R128	1-218-705-11	METAL CHIP	3.6K	0.50%	1/16W	
R129	1-216-823-11	METAL CHIP	1.5K	5%	1/16W	
R130	1-216-857-11	METAL CHIP	1M	5%	1/16W	
R131	1-216-833-11	METAL CHIP	10K	5%	1/16W	
R132	1-216-813-11	METAL CHIP	220	5%	1/16W	
R133	1-218-708-11	METAL CHIP	4.7K	0.50%	1/16W	
R134	1-218-724-11	METAL CHIP	22K	0.50%	1/16W	
R135	1-216-833-11	METAL CHIP	10K	5%	1/16W	
R136	1-216-800-11	METAL GLAZE	18	5%	1/16W	
R137	1-216-821-11	METAL CHIP	1K	5%	1/16W	
R138	1-216-799-11	METAL CHIP	15	5%	1/16W	
R142	1-216-821-11	METAL CHIP	1K	5%	1/16W	
R146	1-216-845-11	METAL CHIP	100K	5%	1/16W	
R147	1-216-815-11	METAL CHIP	330	5%	1/16W	
R149	1-218-704-11	METAL CHIP	3.3K	0.50%	1/16W	
R150	1-218-734-11	METAL CHIP	56K	0.50%	1/16W	
R156	1-216-833-11	METAL CHIP	10K	5%	1/16W	
R157	1-218-708-11	METAL CHIP	4.7K	0.50%	1/16W	
R158	1-218-740-11	METAL CHIP	100K	0.50%	1/16W	
R159	1-218-708-11	METAL CHIP	4.7K	0.50%	1/16W	
R162	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R201	1-216-817-11	METAL CHIP	470	5%	1/16W	
R203	1-218-732-11	METAL CHIP	47K	0.50%	1/16W	
R204	1-216-857-11	METAL CHIP	1M	5%	1/16W	
R212	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R213	1-218-738-11	METAL CHIP	82K	0.50%	1/16W	
R214	1-218-740-11	METAL CHIP	100K	0.50%	1/16W	
R215	1-218-721-11	METAL CHIP	16K	0.50%	1/16W	
R216	1-216-795-11	METAL CHIP	6.8K	0.50%	1/16W	
R217	1-218-716-11	METAL CHIP	10K	0.50%	1/16W	
R218	1-216-821-11	METAL CHIP	1K	5%	1/16W	
R219	1-216-821-11	METAL CHIP	1K	5%	1/16W	
R220	1-218-724-11	METAL CHIP	22K	0.50%	1/16W	
R221	1-218-724-11	METAL CHIP	22K	0.50%	1/16W	
R222	1-218-724-11	METAL CHIP	22K	0.50%	1/16W	
R223	1-218-724-11	METAL CHIP	22K	0.50%	1/16W	
R224	1-218-883-11	METAL CHIP	33K	0.50%	1/16W	
R225	1-218-883-11	METAL CHIP	33K	0.50%	1/16W	
R226	1-218-736-11	METAL CHIP	68K	0.50%	1/16W	
R227	1-218-736-11	METAL CHIP	68K	0.50%	1/16W	
R228	1-218-705-11	METAL CHIP	3.6K	0.50%	1/16W	
R229	1-216-823-11	METAL CHIP	1.5K	5%	1/16W	
R230	1-216-857-11	METAL CHIP	1M	5%	1/16W	
R231	1-216-833-11	METAL CHIP	10K	5%	1/16W	
R232	1-218-676-11	METAL CHIP	220	0.50%	1/16W	
R233	1-218-708-11	METAL CHIP	4.7K	0.50%	1/16W	
R234	1-218-724-11	METAL CHIP	22K	0.50%	1/16W	
R235	1-216-833-11	METAL CHIP	10K	5%	1/16W	
R236	1-216-800-11	METAL GLAZE	18	5%	1/16W	
R237	1-216-821-11	METAL CHIP	1K	5%	1/16W	

Ref.No.	Part No.	Description	Remark
R238	1-216-799-11	METAL CHIP 15 5% 1/16W	
R242	1-216-821-11	METAL CHIP 1K 5% 1/16W	
R246	1-216-845-11	METAL CHIP 100K 5% 1/16W	
R247	1-216-815-11	METAL CHIP 330 5% 1/16W	
R249	1-218-704-11	METAL CHIP 3.3K 0.50% 1/16W	
R250	1-218-734-11	METAL CHIP 56K 0.50% 1/16W	
R256	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R257	1-218-708-11	METAL CHIP 4.7K 0.50% 1/16W	
R258	1-218-740-11	METAL CHIP 100K 0.50% 1/16W	
R259	1-218-708-11	METAL CHIP 4.7K 0.50% 1/16W	
R262	1-216-864-11	METAL GLAZE 0 5% 1/16W	
R304	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R307	1-216-841-11	METAL CHIP 47K 5% 1/16W	
R308	1-216-821-11	METAL CHIP 1K 5% 1/16W	
R309	1-218-716-11	METAL CHIP 10K 0.50% 1/16W	
R310	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R311	1-218-736-11	METAL CHIP 68K 0.50% 1/16W	
R313	1-218-723-11	METAL CHIP 20K 0.50% 1/16W	
R314	1-218-723-11	METAL CHIP 20K 0.50% 1/16W	
R315	1-218-708-11	METAL CHIP 4.7K 0.50% 1/16W	
R316	1-218-708-11	METAL CHIP 4.7K 0.50% 1/16W	
R318	1-216-825-11	METAL CHIP 2.2K 5% 1/16W	
R319	1-216-825-11	METAL CHIP 2.2K 5% 1/16W	
R320	1-216-864-11	METAL GLAZE 0 5% 1/16W	
R321	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R322	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R323	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R324	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R325	1-216-857-11	METAL CHIP 1M 5% 1/16W	
R330	1-216-864-11	METAL GLAZE 0 5% 1/16W	
R332	1-218-704-11	METAL CHIP 3.3K 0.50% 1/16W	
R333	1-216-822-11	METAL CHIP 1.2K 5% 1/16W	
R334	1-218-708-11	METAL CHIP 4.7K 0.50% 1/16W	
R338	1-216-864-11	METAL GLAZE 0 5% 1/16W	
R339	1-218-708-11	METAL CHIP 4.7K 0.50% 1/16W	
R340	1-216-845-11	METAL CHIP 100K 5% 1/16W	
R341	1-216-845-11	METAL CHIP 100K 5% 1/16W	
R342	1-216-823-11	METAL CHIP 1.5K 5% 1/16W	
R343	1-216-841-11	METAL CHIP 47K 5% 1/16W	
R345	1-216-835-11	METAL CHIP 15K 5% 1/16W	
R346	1-216-817-11	METAL CHIP 470 5% 1/16W	
R347	1-218-724-11	METAL CHIP 22K 0.50% 1/16W	
R348	1-216-864-11	METAL GLAZE 0 5% 1/16W	
R349	1-216-864-11	METAL GLAZE 0 5% 1/16W	
R350	1-218-698-11	METAL CHIP 1.8K 0.50% 1/16W	
R351	1-218-698-11	METAL CHIP 1.8K 0.50% 1/16W	
R352	1-218-732-11	METAL CHIP 47K 0.50% 1/16W	
R353	1-216-841-11	METAL CHIP 47K 5% 1/16W	
R354	1-216-864-11	METAL GLAZE 0 5% 1/16W	
R356	1-216-804-11	METAL CHIP 39 5% 1/16W	
R357	1-218-740-11	METAL CHIP 100K 0.50% 1/16W	
R358	1-216-857-11	METAL CHIP 1M 5% 1/16W	
R359	1-216-864-11	METAL CHIP 0 5% 1/16W	
R360	1-216-864-11	METAL CHIP 0 5% 1/16W	
R361	1-216-864-11	METAL CHIP 0 5% 1/16W	
R362	1-216-864-11	METAL CHIP 0 5% 1/16W	
R366	1-216-825-11	METAL CHIP 2.2K 5% 1/16W	
R367	1-216-825-11	METAL CHIP 2.2K 5% 1/16W	
R369	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R370	1-216-830-11	METAL CHIP 5.6K 5% 1/16W	
R371	1-216-821-11	METAL CHIP 1K 5% 1/16W	
R372	1-216-841-11	METAL CHIP 47K 5% 1/16W	
R373	1-216-845-11	METAL CHIP 100K 5% 1/16W	
R374	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R375	1-216-851-11	METAL CHIP 330K 5% 1/16W	
R376	1-216-845-11	METAL CHIP 100K 5% 1/16W	
R377	1-216-851-11	METAL CHIP 330K 5% 1/16W	
R378	1-216-845-11	METAL CHIP 100K 5% 1/16W	
R379	1-216-845-11	METAL CHIP 100K 5% 1/16W	
R380	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R382	1-218-293-11	METAL GLAZE 24K 5% 1/16W	
R383	1-216-845-11	METAL CHIP 100K 5% 1/16W	
R387	1-216-864-11	METAL GLAZE 0 5% 1/16W	
R388	1-216-864-11	METAL GLAZE 0 5% 1/16W	
R390	1-216-864-11	METAL CHIP 0 5% 1/16W	
R402	1-216-841-11	METAL CHIP 47K 5% 1/16W	
R441	1-216-864-11	METAL CHIP 0 5% 1/16W	
R443	1-216-825-11	METAL CHIP 2.2K 5% 1/16W	
R501	1-216-847-11	METAL CHIP 150K 5% 1/16W	
R502	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R503	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R504	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R505	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R506	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R507	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R508	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R509	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R510	1-216-848-11	METAL CHIP 180K 5% 1/16W	
R511	1-216-857-11	METAL CHIP 1M 5% 1/16W	
R512	1-218-448-11	METAL GLAZE 430K 5% 1/16W	
R513	1-216-857-11	METAL CHIP 1M 5% 1/16W	
R514	1-216-838-11	METAL CHIP 27K 5% 1/16W	
R515	1-216-848-11	METAL CHIP 180K 5% 1/16W	
R516	1-216-844-11	METAL CHIP 82K 5% 1/16W	
R517	1-216-845-11	METAL CHIP 100K 5% 1/16W	
R518	1-216-830-11	METAL CHIP 5.6K 5% 1/16W	
R519	1-216-825-11	METAL CHIP 2.2K 5% 1/16W	
R520	1-216-857-11	METAL CHIP 1M 5% 1/16W	
R521	1-216-838-11	METAL CHIP 27K 5% 1/16W	
R522	1-216-838-11	METAL CHIP 27K 5% 1/16W	

MAIN (MD)

Ref.No.	Part No.	Description				Remark
R523	1-216-838-11	METAL CHIP	27K	5%	1/16W	
R524	1-216-838-11	METAL CHIP	27K	5%	1/16W	
R525	1-216-838-11	METAL CHIP	27K	5%	1/16W	
R526	1-218-738-11	METAL CHIP	82K	0.50%	1/16W	
R527	1-216-838-11	METAL CHIP	27K	5%	1/16W	
R528	1-218-738-11	METAL CHIP	82K	0.50%	1/16W	
R529	1-216-838-11	METAL CHIP	27K	5%	1/16W	
R530	1-216-849-11	METAL CHIP	220K	5%	1/16W	
R533	1-216-815-11	METAL CHIP	330	5%	1/16W	
R534	1-216-845-11	METAL CHIP	100K	5%	1/16W	
R535	1-216-845-11	METAL CHIP	100K	5%	1/16W	
R536	1-216-001-00	METAL CHIP	10	5%	1/10W	
R538	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	
R539	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	
R540	1-218-704-11	METAL CHIP	3.3K	0.50%	1/16W	
R541	1-216-832-11	METAL CHIP	8.2K	5%	1/16W	
R542	1-216-832-11	METAL CHIP	8.2K	5%	1/16W	
R543	1-216-832-11	METAL CHIP	8.2K	5%	1/16W	
R544	1-216-832-11	METAL CHIP	8.2K	5%	1/16W	
R545	1-218-287-11	METAL GLAZE	200	5%	1/16W	
R546	1-216-821-11	METAL CHIP	1K	5%	1/16W	
R547	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	
R548	1-216-841-11	METAL CHIP	47K	5%	1/16W	
R549	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	
R550	1-216-841-11	METAL CHIP	47K	5%	1/16W	
R551	1-216-857-11	METAL CHIP	1M	5%	1/16W	
R552	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R553	1-216-832-11	METAL CHIP	8.2K	5%	1/16W	
R554	1-218-883-11	METAL CHIP	33K	0.50%	1/16W	
R556	1-216-833-11	METAL CHIP	10K	5%	1/16W	
R558	1-216-835-11	METAL CHIP	15K	5%	1/16W	
R559	1-216-845-11	METAL CHIP	100K	5%	1/16W	
R561	1-216-845-11	METAL CHIP	100K	5%	1/16W	
R562	1-216-845-11	METAL CHIP	100K	5%	1/16W	
R563	1-218-724-11	METAL CHIP	22K	0.50%	1/16W	
R564	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	
R565	1-218-698-11	METAL CHIP	1.8K	0.50%	1/16W	
R566	1-218-883-11	METAL CHIP	33K	0.50%	1/16W	
R567	1-216-854-11	METAL CHIP	560K	5%	1/16W	
R568	1-216-845-11	METAL CHIP	100K	5%	1/16W	
R569	1-216-821-11	METAL CHIP	1K	5%	1/16W	
R570	1-218-736-11	METAL CHIP	68K	0.50%	1/16W	
R571	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R572	1-218-724-11	METAL CHIP	22K	0.50%	1/16W	
R573	1-218-724-11	METAL CHIP	22K	0.50%	1/16W	
R574	1-216-848-11	METAL CHIP	180K	5%	1/16W	
R575	1-218-704-11	METAL CHIP	3.3K	0.50%	1/16W	
R577	1-216-857-11	METAL CHIP	1M	5%	1/16W	
R578	1-218-740-11	METAL CHIP	100K	0.50%	1/16W	
R579	1-216-795-11	METAL CHIP	6.8K	0.50%	1/16W	
R581	1-216-817-11	METAL CHIP	470	5%	1/16W	
R582	1-216-850-11	METAL CHIP	270K	5%	1/16W	
R583	1-216-833-11	METAL CHIP	10K	5%	1/16W	
R584	1-218-708-11	METAL CHIP	4.7K	0.50%	1/16W	
R585	1-216-857-11	METAL CHIP	1M	5%	1/16W	
R586	1-218-732-11	METAL CHIP	47K	0.50%	1/16W	
R587	1-218-732-11	METAL CHIP	47K	0.50%	1/16W	
R588	1-216-833-11	METAL CHIP	10K	5%	1/16W	
R589	1-216-820-11	METAL CHIP	820	5%	1/16W	
R592	1-216-845-11	METAL CHIP	100K	5%	1/16W	
R593	1-216-845-11	METAL CHIP	100K	5%	1/16W	
R594	1-216-845-11	METAL CHIP	100K	5%	1/16W	
R595	1-216-841-11	METAL CHIP	47K	5%	1/16W	
R596	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R597	1-216-833-11	METAL CHIP	10K	5%	1/16W	
R598	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R599	1-216-827-11	METAL CHIP	3.3K	5%	1/16W	
R601	1-216-835-11	METAL CHIP	15K	5%	1/16W	
R602	1-216-833-11	METAL CHIP	10K	5%	1/16W	
R603	1-216-795-11	METAL CHIP	6.8K	0.50%	1/16W	
R604	1-216-845-11	METAL CHIP	100K	5%	1/16W	
R605	1-216-835-11	METAL CHIP	15K	5%	1/16W	
R606	1-216-841-11	METAL CHIP	47K	5%	1/16W	
R607	1-216-841-11	METAL CHIP	47K	5%	1/16W	
R608	1-216-795-11	METAL CHIP	6.8K	0.50%	1/16W	
R609	1-216-833-11	METAL CHIP	10K	5%	1/16W	
R610	1-216-833-11	METAL CHIP	10K	5%	1/16W	
R611	1-216-795-11	METAL CHIP	6.8K	0.50%	1/16W	
R612	1-216-845-11	METAL CHIP	100K	5%	1/16W	
R613	1-216-833-11	METAL CHIP	10K	5%	1/16W	
R614	1-218-704-11	METAL CHIP	3.3K	0.50%	1/16W	
R615	1-216-833-11	METAL CHIP	10K	5%	1/16W	
R616	1-218-331-11	METAL GLAZE	51K	5%	1/16W	
R617	1-216-821-11	METAL CHIP	1K	5%	1/16W	
R623	1-216-833-11	METAL CHIP	10K	5%	1/16W	
R624	1-216-833-11	METAL CHIP	10K	5%	1/16W	
R625	1-216-845-11	METAL CHIP	100K	5%	1/16W	
R626	1-216-821-11	METAL CHIP	1K	5%	1/16W	
R627	1-216-821-11	METAL CHIP	1K	5%	1/16W	
R629	1-216-830-11	METAL CHIP	5.6K	5%	1/16W	
R630	1-216-821-11	METAL CHIP	1K	5%	1/16W	
R631	1-216-821-11	METAL CHIP	1K	5%	1/16W	
R632	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R633	1-218-676-11	METAL CHIP	220	0.50%	1/16W	
R634	1-216-841-11	METAL CHIP	47K	5%	1/16W	
R636	1-216-857-11	METAL CHIP	1M	5%	1/16W	
R637	1-216-857-11	METAL CHIP	1M	5%	1/16W	
R638	1-216-857-11	METAL CHIP	1M	5%	1/16W	
R639	1-216-857-11	METAL CHIP	1M	5%	1/16W	
R640	1-216-864-11	METAL GLAZE	0	5%	1/16W	

Ref. No.	Part No.	Description				Remark
R641	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R642	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R643	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R644	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R645	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R646	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R647	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R648	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R649	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R650	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R651	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R655	1-216-841-11	METAL CHIP	47K	5%	1/16W	
R656	1-216-841-11	METAL CHIP	47K	5%	1/16W	
R657	1-216-821-11	METAL CHIP	1K	5%	1/16W	
R660	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R665	1-216-864-11	METAL CHIP	0	5%	1/16W	
R669	1-218-698-11	METAL CHIP	1.8K	0.50%	1/16W	
R671	1-216-809-11	METAL CHIP	100	5%	1/16W	
R802	1-216-821-11	METAL CHIP	1K	5%	1/16W	
R803	1-216-821-11	METAL CHIP	1K	5%	1/16W	
R811	1-216-814-11	METAL CHIP	270	5%	1/16W	
R812	1-218-676-11	METAL CHIP	220	0.50%	1/16W	
R814	1-216-857-11	METAL CHIP	1M	5%	1/16W	
R816	1-216-845-11	METAL CHIP	100K	5%	1/16W	
R820	1-218-708-11	METAL CHIP	4.7K	0.50%	1/16W	
R821	1-216-821-11	METAL CHIP	1K	5%	1/16W	
R824	1-216-833-11	METAL CHIP	10K	5%	1/16W	
R825	1-218-708-11	METAL CHIP	4.7K	0.50%	1/16W	
R826	1-216-833-11	METAL CHIP	10K	5%	1/16W	
R828	1-218-675-11	METAL CHIP	200	0.50%	1/16W	
R829	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R833	1-218-708-11	METAL CHIP	4.7K	0.50%	1/16W	
R834	1-218-708-11	METAL CHIP	4.7K	0.50%	1/16W	
R835	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R836	1-216-841-11	METAL CHIP	47K	5%	1/16W	
R837	1-216-841-11	METAL CHIP	47K	5%	1/16W	
R839	1-216-841-11	METAL CHIP	47K	5%	1/16W	
R840	1-216-841-11	METAL CHIP	47K	5%	1/16W	
R841	1-216-841-11	METAL CHIP	47K	5%	1/16W	
R842	1-218-708-11	METAL CHIP	4.7K	0.50%	1/16W	
R845	1-216-841-11	METAL CHIP	47K	5%	1/16W	
R848	1-216-841-11	METAL CHIP	47K	5%	1/16W	
R849	1-216-841-11	METAL CHIP	47K	5%	1/16W	
R850	1-216-841-11	METAL CHIP	47K	5%	1/16W	
R851	1-216-841-11	METAL CHIP	47K	5%	1/16W	
R852	1-216-841-11	METAL CHIP	47K	5%	1/16W	
R870	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R871	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R873	1-216-864-11	METAL CHIP	0	5%	1/16W	
R874	1-216-821-11	METAL CHIP	1K	5%	1/16W	

Ref. No.	Part No.	Description				Remark
R875	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R876	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R877	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R878	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R879	1-216-864-11	METAL CHIP	0	5%	1/16W	
R880	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R881	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R882	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R883	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R884	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R885	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R886	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R887	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R888	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R889	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R891	1-216-851-11	METAL CHIP	330K	5%	1/16W	
R892	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R893	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R894	1-216-845-11	METAL CHIP	100K	5%	1/16W	
R896	1-216-845-11	METAL CHIP	100K	5%	1/16W	
R897	1-216-853-11	METAL CHIP	470K	5%	1/16W	
R898	1-216-851-11	METAL CHIP	330K	5%	1/16W	
R899	1-216-809-11	METAL CHIP	100	5%	1/16W	
R5000	1-216-820-11	METAL CHIP	820	5%	1/16W	
R5001	1-216-864-11	METAL CHIP	0	5%	1/16W	
R5002	1-216-850-11	METAL CHIP	270K	5%	1/16W	
R5003	1-216-864-11	METAL CHIP	0	5%	1/16W	
R5005	1-216-851-11	METAL CHIP	330K	5%	1/16W	
R5006	1-216-838-11	METAL CHIP	27K	5%	1/16W	
R5007	1-216-851-11	METAL CHIP	330K	5%	1/16W	
R5008	1-218-745-11	METAL CHIP	160K	0.50%	1/16W	
R5011	1-216-833-11	METAL CHIP	10K	5%	1/16W	
R5014	1-218-708-11	METAL CHIP	4.7K	0.50%	1/16W	
R5015	1-218-883-11	METAL CHIP	33K	0.50%	1/16W	
R5016	1-218-883-11	METAL CHIP	33K	0.50%	1/16W	
R5017	1-218-736-11	METAL CHIP	68K	0.50%	1/16W	
R5018	1-218-736-11	METAL CHIP	68K	0.50%	1/16W	
R5020	1-216-857-11	METAL CHIP	1M	5%	1/16W	
R5021	1-216-849-11	METAL CHIP	220K	5%	1/16W	
R5022	1-216-835-11	METAL CHIP	15K	5%	1/16W	
R5023	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R5024	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R5025	1-216-859-11	METAL GLAZE	1.5M	5%	1/16W	
R5026	1-216-826-11	METAL CHIP	2.7K	5%	1/16W	
R5027	1-216-832-11	METAL CHIP	8.2K	5%	1/16W	
R5028	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R5029	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R5030	1-216-864-11	METAL GLAZE	0	5%	1/16W	
R5031	1-218-883-11	METAL CHIP	33K	0.50%	1/16W	
R5032	1-218-736-11	METAL CHIP	68K	0.50%	1/16W	

MAIN (MD)

Ref.No.	Part No.	Description	Remark
R5033	1-216-864-11	METAL CHIP 0 5% 1/16W	
R5034	1-216-857-11	METAL CHIP 1M 5% 1/16W	
R5035	1-216-848-11	METAL CHIP 180K 5% 1/16W	
R5036	1-218-883-11	METAL CHIP 33K 0.50% 1/16W	
R5037	1-216-848-11	METAL CHIP 180K 5% 1/16W	
R5038	1-218-883-11	METAL CHIP 33K 0.50% 1/16W	
R5039	1-216-850-11	METAL CHIP 270K 5% 1/16W	
R5040	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R5041	1-216-841-11	METAL CHIP 47K 5% 1/16W	
R5042	1-216-841-11	METAL CHIP 47K 5% 1/16W	
R5043	1-216-864-11	METAL GLAZE 0 5% 1/16W	
R5044	1-216-864-11	METAL GLAZE 0 5% 1/16W	
R5045	1-216-864-11	METAL GLAZE 0 5% 1/16W	
R5046	1-216-864-11	METAL GLAZE 0 5% 1/16W	
R5047	1-216-864-11	METAL GLAZE 0 5% 1/16W	
R5048	1-216-864-11	METAL GLAZE 0 5% 1/16W	
R5049	1-216-864-11	METAL GLAZE 0 5% 1/16W	
R5053	1-216-864-11	METAL GLAZE 0 5% 1/16W	
R5054	1-216-864-11	METAL GLAZE 0 5% 1/16W	
R5055	1-216-830-11	METAL CHIP 5.6K 5% 1/16W	
R5056	1-216-864-11	METAL CHIP 0 5% 1/16W	
R5058	1-216-825-11	METAL CHIP 2.2K 5% 1/16W	
R5059	1-216-845-11	METAL CHIP 100K 5% 1/16W	
R5060	1-216-865-11	METAL CHIP 3K 5% 1/16W	
R5061	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R5062	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R5063	1-216-857-11	METAL CHIP 1M 5% 1/16W	
R5065	1-216-836-11	METAL CHIP 18K 5% 1/16W	
R5066	1-218-883-11	METAL CHIP 33K 0.50% 1/16W	
R5067	1-218-883-11	METAL CHIP 33K 0.50% 1/16W	
R5068	1-216-864-11	METAL GLAZE 0 5% 1/16W	
R5069	1-216-864-11	METAL GLAZE 0 5% 1/16W	
R5070	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R5071	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R5072	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R5073	1-216-849-11	METAL CHIP 220K 5% 1/16W	
R5074	1-216-849-11	METAL CHIP 220K 5% 1/16W	
R5075	1-216-845-11	METAL CHIP 100K 5% 1/16W	
R5076	1-216-853-11	METAL CHIP 470K 5% 1/16W	
R5077	1-216-853-11	METAL CHIP 470K 5% 1/16W	
R5078	1-216-853-11	METAL CHIP 470K 5% 1/16W	
R5079	1-218-724-11	METAL CHIP 22K 0.50% 1/16W	
R5080	1-218-330-11	METAL GLAZE 11K 5% 1/16W	
R5081	1-218-724-11	METAL CHIP 22K 0.50% 1/16W	
R5082	1-216-001-00	METAL CHIP 10 5% 1/10W	
R5083	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R5084	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R5085	1-216-828-11	METAL CHIP 3.9K 5% 1/16W	
R5086	1-216-864-11	METAL GLAZE 0 5% 1/16W	
R5087	1-216-864-11	METAL GLAZE 0 5% 1/16W	

Ref.No.	Part No.	Description	Remark
R5091	1-218-708-11	METAL CHIP 4.7K 0.50% 1/16W	
R5092	1-218-724-11	METAL CHIP 22K 0.50% 1/16W	
R5093	1-216-860-11	METAL GLAZE 1.8M 5% 1/16W	
R5096	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R5097	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R5098	1-216-841-11	METAL CHIP 47K 5% 1/16W	
R5099	1-216-864-11	METAL GLAZE 0 5% 1/16W	
R5100	1-216-864-11	METAL GLAZE 0 5% 1/16W	
R5101	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R5102	1-218-736-11	METAL CHIP 68K 0.50% 1/16W	
R5105	1-216-835-11	METAL CHIP 15K 5% 1/16W	
R5109	1-216-864-11	METAL GLAZE 0 5% 1/16W	
R5110	1-216-835-11	METAL CHIP 15K 5% 1/16W	
R5117	1-216-834-11	METAL CHIP 12K 5% 1/16W	
R5201	1-216-809-11	METAL CHIP 100 5% 1/16W	
R5202	1-216-821-11	METAL CHIP 1K 5% 1/16W	
R5206	1-216-295-00	METAL CHIP 0 5% 1/10W	
R5207	1-216-295-00	METAL CHIP 0 5% 1/10W	
R5208	1-218-708-11	METAL CHIP 4.7K 0.50% 1/16W	
R5209	1-216-845-11	METAL CHIP 100K 5% 1/16W	
R5210	1-216-845-11	METAL CHIP 100K 5% 1/16W	
R5212	1-216-849-11	METAL CHIP 220K 5% 1/16W	
R5213	1-216-830-11	METAL CHIP 5.6K 5% 1/16W	
R5114	1-216-864-11	METAL GLAZE 0 5% 1/16W	
R5116	1-216-864-11	METAL GLAZE 0 5% 1/16W	
R5118	1-216-864-11	METAL GLAZE 0 5% 1/16W	
R5200	1-216-864-11	METAL GLAZE 0 5% 1/16W	
R5203	1-216-864-11	METAL GLAZE 0 5% 1/16W	
R5216	1-216-864-11	METAL GLAZE 0 5% 1/16W	
R5217	1-216-864-11	METAL GLAZE 0 5% 1/16W	
R5218	1-216-864-11	METAL CHIP 0 5% 1/16W	
R5219	1-216-849-11	METAL CHIP 220K 5% 1/16W	
R5220	1-218-708-11	METAL CHIP 4.7K 0.50% 1/16W	
R5223	1-216-821-11	METAL CHIP 1K 5% 1/16W	
R8001	1-216-857-11	METAL CHIP 1M 5% 1/16W	
R8002	1-216-845-11	METAL CHIP 100K 5% 1/16W	
R8003	1-216-821-11	METAL CHIP 1K 5% 1/16W	
R8004	1-216-841-11	METAL CHIP 47K 5% 1/16W	
R8005	1-216-863-11	METAL GLAZE 3.3M 5% 1/16W	
R8006	1-216-853-11	METAL CHIP 470K 5% 1/16W	
R8007	1-216-821-11	METAL CHIP 1K 5% 1/16W	
R8008	1-216-819-11	METAL CHIP 680 5% 1/16W	
R8009	1-216-845-11	METAL CHIP 100K 5% 1/16W	
R8041	1-216-841-11	METAL CHIP 47K 5% 1/16W	

< VARIABLE RESISTOR >

Ref.No.	Part No.	Description	Remark
RV501	1-238-089-11	RES, ADJ, CERMET 4.7K	
RV502	1-238-091-11	RES, ADJ, CERMET 22K	
RV503	1-238-090-11	RES, ADJ, CERMET 10K	
RV504	1-238-090-11	RES, ADJ, CERMET 10K	

POWER (MD)

Ref. No.	Part No.	Description	Remark
		< IC >	
IC401	8-759-054-95	IC RF5C189	
IC402	8-759-990-43	IC TL1451ACDB	
IC403	8-759-168-33	IC S-81245PG-P5	
		< COIL >	
L401	1-410-626-11	COIL, CHOKE 47uH	
L402	1-412-039-51	INDUCTOR CHIP 100uH	
L403	1-410-626-11	COIL, CHOKE 47uH	
L404	1-410-627-11	COIL, CHOKE 100uH	
L405	1-410-627-11	COIL, CHOKE 100uH	
		< TRANSISTOR >	
Q403	8-729-923-45	TRANSISTOR 2SB1308-QR	
Q404	8-729-924-65	TRANSISTOR DTC123YU	
Q405	8-729-923-45	TRANSISTOR 2SB1308-QR	
Q406	8-729-924-65	TRANSISTOR DTC123YU	
Q407	8-729-923-45	TRANSISTOR 2SB1308-QR	
Q408	8-729-924-65	TRANSISTOR DTC123YU	
Q410	8-729-923-36	TRANSISTOR 2SD1963-Q. R	
Q411	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q412	8-729-923-45	TRANSISTOR 2SB1308-QR	
Q413	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q414	8-729-905-12	TRANSISTOR DTA144EU	
Q415	8-729-922-10	TRANSISTOR 2SA1577-QR	
Q416	8-729-905-15	TRANSISTOR DTC144WU	
Q420	8-729-905-12	TRANSISTOR DTA144EU	
Q421	8-729-923-45	TRANSISTOR 2SB1308-QR	
Q422	8-729-907-00	TRANSISTOR DTC114EU	
Q423	8-729-905-12	TRANSISTOR DTA144EU	
Q426	8-729-806-75	TRANSISTOR 2SB1120	
Q428	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q429	8-729-806-75	TRANSISTOR 2SB1120	
Q430	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q431	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q432	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q433	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q434	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q435	8-729-907-00	TRANSISTOR DTC114EU	
Q436	8-729-117-32	TRANSISTOR 2SC4177	
		< RESISTOR >	
R401	1-216-033-00	METAL CHIP 220 5% 1/10W	
R403	1-216-815-11	METAL CHIP 330 5% 1/16W	
R404	1-216-864-11	METAL CHIP 0 5% 1/16W	
R405	1-216-821-11	METAL CHIP 1K 5% 1/16W	
R406	1-216-823-11	METAL CHIP 1. 5K 5% 1/16W	
R407	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R408	1-216-041-00	METAL CHIP 470 5% 1/10W	
R409	1-217-671-11	METAL CHIP 1 5% 1/10W	

Ref. No.	Part No.	Description	Remark
R410	1-217-671-11	METAL CHIP 1 5% 1/10W	
R411	1-216-817-11	METAL CHIP 470 5% 1/16W	
R413	1-216-829-11	METAL CHIP 4. 7K 5% 1/16W	
R414	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R415	1-216-831-11	METAL CHIP 6. 8K 5% 1/16W	
R418	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R419	1-216-857-11	METAL CHIP 1M 5% 1/16W	
R421	1-216-033-00	METAL CHIP 0 5% 1/16W	
R422	1-216-037-00	METAL CHIP 330 5% 1/10W	
R424	1-216-836-11	METAL CHIP 18K 5% 1/16W	
R425	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R426	1-216-825-11	METAL CHIP 2. 2K 5% 1/16W	
R427	1-216-845-11	METAL CHIP 100K 5% 1/16W	
R428	1-216-821-11	METAL CHIP 1K 5% 1/16W	
R429	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R430	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R431	1-217-671-11	METAL CHIP 1 5% 1/10W	
R432	1-216-857-11	METAL CHIP 1M 5% 1/16W	
R433	1-217-671-11	METAL CHIP 1 5% 1/10W	
R434	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R435	1-216-835-11	METAL CHIP 15K 5% 1/16W	
R436	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R437	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R438	1-216-821-11	METAL CHIP 1K 5% 1/16W	
R439	1-216-821-11	METAL CHIP 1K 5% 1/16W	
R440	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R442	1-216-841-11	METAL CHIP 47K 5% 1/16W	
R443	1-216-825-11	METAL CHIP 2. 2K 5% 1/16W	
R445	1-216-815-11	METAL CHIP 330 5% 1/16W	
R446	1-216-031-00	METAL CHIP 180 5% 1/10W	
R447	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R448	1-216-821-11	METAL CHIP 1K 5% 1/16W	
R449	1-216-821-11	METAL CHIP 1K 5% 1/16W	
R450	1-216-828-11	METAL CHIP 3. 9K 5% 1/16W	
R451	1-216-825-11	METAL CHIP 2. 2K 5% 1/16W	
R452	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R453	1-216-857-11	METAL CHIP 1M 5% 1/16W	
R454	1-216-033-00	METAL CHIP 220 5% 1/10W	
R455	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R456	1-216-821-11	METAL CHIP 1K 5% 1/16W	
R457	1-216-823-11	METAL CHIP 1. 5K 5% 1/16W	
R458	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R459	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R460	1-216-821-11	METAL CHIP 1K 5% 1/16W	
R461	1-216-829-11	METAL CHIP 4. 7K 5% 1/16W	
R462	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R463	1-216-829-11	METAL CHIP 4. 7K 5% 1/16W	
R464	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R465	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R466	1-216-825-11	METAL CHIP 2. 2K 5% 1/16W	

Ref. No.	Part No.	Description	Remark
RV505	1-223-377-11	RES, ADJ, CERMET 100	
RV507	1-238-091-11	RES, ADJ, CERMET 22K	
RV508	1-238-091-11	RES, ADJ, CERMET 22K	
RV509	1-241-467-21	RES, ADJ, CERMET 100K	
RV510	1-238-089-11	RES, ADJ, CERMET 4.7K	
RV511	1-238-089-11	RES, ADJ, CERMET 4.7K	
RV512	1-238-089-11	RES, ADJ, CERMET 4.7K	
RV513	1-238-089-11	RES, ADJ, CERMET 4.7K	
RV514	1-238-091-11	RES, ADJ, CERMET 22K	
RV515	1-238-091-11	RES, ADJ, CERMET 22K	
RV516	1-238-092-11	RES, ADJ, CERMET 47K	
RV517	1-238-092-11	RES, ADJ, CERMET 47K	
RV519	1-238-091-11	RES, ADJ, CERMET 22K	
RV601	1-238-090-11	RES, ADJ, CERMET 10K	
RV602	1-238-090-11	RES, ADJ, CERMET 10K	

< SWITCH >

Ref. No.	Part No.	Description	Remark
S801	1-572-467-31	SWITCH, PUSH (1 KEY)(EDIT)	
S802	1-572-694-21	SWITCH, KEY BOARD(REFLOW TYPE)	(CLOCK SET)
S803	1-572-467-31	SWITCH, PUSH (1 KEY)(REC)	

< THERMISTOR >

Ref. No.	Part No.	Description	Remark
TH301	1-809-990-21	THERMISTOR NTH5G40B473K02TE	
TH302	1-809-990-21	THERMISTOR NTH5G40B473K02TE	
TH501	1-809-986-21	THERMISTOR NTH5G36B103K02TE	

< VIBRATOR >

Ref. No.	Part No.	Description	Remark
X601	1-579-725-21	VIBRATOR, CRYSTAL (22MHz)	
X602	1-579-847-21	OSCILLATOR, CRYSTAL (55MHz)	
X801	1-579-709-11	VIBRATOR, CRYSTAL (32kHz)	
X802	1-579-846-21	VIBRATOR, CERAMIC (12MHz)	

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* A-3275-782-A POWER BOARD COMPLETE (MD)

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< CAPACITOR >

Ref. No.	Part No.	Description	Remark
C401	1-164-346-11	CERAMIC CHIP 1uF 16V	
C405	1-162-959-11	CERAMIC CHIP 330PF 5% 50V	
C406	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
C407	1-126-924-11	ELECT 330uF 20% 10V	
C408	1-164-346-11	CERAMIC CHIP 1uF 16V	
C410	1-104-813-91	TANTAL. CHIP 10uF 20% 16V	
C412	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V	
C414	1-135-237-11	TANTAL. CHIP 2.2uF 20% 16V	
C415	1-104-813-91	TANTAL. CHIP 10uF 20% 16V	
C416	1-135-264-21	TANTAL. CHIP 22uF 20% 10V	
C418	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C421	1-164-315-11	CERAMIC CHIP 470PF 5% 50V	
C431	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C432	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C433	1-127-561-11	ELECT(SOLID) 33uF 20% 10V	
C434	1-135-149-21	TANTALUM CHIP 2.2uF 20% 10V	
C435	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
C436	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V	
C437	1-162-961-11	CERAMIC CHIP 330PF 10% 50V	
C438	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V	
C439	1-162-961-11	CERAMIC CHIP 330PF 10% 50V	
C440	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
C442	1-127-511-00	ELECT(SOLID) 6.8uF 20% 25V	
C443	1-135-149-21	TANTALUM CHIP 2.2uF 20% 10V	
C444	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C445	1-127-561-11	ELECT(SOLID) 33uF 20% 10V	
C446	1-127-561-11	ELECT(SOLID) 33uF 20% 10V	
C447	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
C450	1-127-498-00	ELECT(SOLID) 15uF 20% 16V	
C452	1-127-498-00	ELECT(SOLID) 15uF 20% 16V	
C453	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V	
C454	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
C455	1-162-961-11	CERAMIC CHIP 330PF 10% 50V	
C456	1-127-561-11	ELECT(SOLID) 33uF 20% 10V	
C457	1-162-961-11	CERAMIC CHIP 330PF 10% 50V	
C458	1-163-986-00	CERAMIC CHIP 0.027uF 10% 25V	
C459	1-126-934-11	ELECT 220uF 20% 16V	
C460	1-164-505-11	CERAMIC CHIP 2.2uF 16V	
C461	1-164-505-11	CERAMIC CHIP 2.2uF 16V	

< CONNECTOR >

Ref. No.	Part No.	Description	Remark
CN402	1-573-343-21	CONNECTOR, BOARD TO BOARD 30P	
CN403	1-573-307-11	CONNECTOR, BOARD TO BOARD 14P	
CN404	1-573-335-11	CONNECTOR, BOARD TO BOARD 14P	
CN405	1-573-308-11	CONNECTOR, BOARD TO BOARD 16P	
CN406	1-573-336-11	CONNECTOR, BOARD TO BOARD 16P	

< DIODE >

Ref. No.	Part No.	Description	Remark
D402	8-719-106-16	DIODE RD6.8M-B1	
D404	8-719-991-65	DIODE SB02W03C	
D405	8-719-974-51	DIODE SB20-03P	
D407	8-719-974-51	DIODE SB20-03P	
D410	8-719-988-78	DIODE SB007W03Q	
D411	8-719-975-33	DIODE RB110C	
D412	8-719-975-33	DIODE RB110C	
D413	8-719-975-33	DIODE RB110C	
D414	8-719-404-46	DIODE MA110	
D415	8-719-975-33	DIODE RB110C	
D416	8-719-975-33	DIODE RB110C	
D417	8-719-975-33	DIODE RB110C	
D418	8-719-023-69	DIODE SB007T03Q	
D419	8-719-106-16	DIODE RD6.8M-B1	

Ref. No.	Part No.	Description	Remark
R467	1-216-031-00	METAL CHIP 180 5% 1/10W	
R468	1-216-836-11	METAL CHIP 18K 5% 1/16W	
R469	1-216-857-11	METAL CHIP 1M 5% 1/16W	
R470	1-216-821-11	METAL CHIP 1K 5% 1/16W	
R471	1-216-821-11	METAL CHIP 1K 5% 1/16W	
R472	1-216-864-11	METAL CHIP 0 5% 1/16W	
R473	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R474	1-216-864-11	METAL CHIP 0 5% 1/16W	
R476	1-216-799-11	METAL CHIP 15 5% 1/16W	
R477	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R478	1-216-841-11	METAL CHIP 47K 5% 1/16W	
R479	1-216-841-11	METAL CHIP 47K 5% 1/16W	
R481	1-216-828-11	METAL CHIP 3.9K 5% 1/16W	

< VARIABLE RESISTOR >

Ref. No.	Part No.	Description	Remark
RV401	1-238-089-11	RES, ADJ, CERMET 4.7K	
RV402	1-238-088-11	RES, ADJ, CERMET 2.2K	
RV403	1-238-089-11	RES, ADJ, CERMET 4.7K	
RV405	1-238-090-11	RES, ADJ, CERMET 10K	
RV406	1-238-090-11	RES, ADJ, CERMET 10K	

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Ref. No.	Part No.	Description	Remark
*	1-648-595-12	PTOC BOARD	

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< CAPACITOR >

Ref. No.	Part No.	Description	Remark
C691	1-135-264-21	TANTALUM CHIP 22uF 20% 10V	
C692	1-135-181-21	TANTALUM CHIP 4.7uF 20% 6.3V	
C693	1-135-181-21	TANTALUM CHIP 4.7uF 20% 6.3V	

< DIODE >

Ref. No.	Part No.	Description	Remark
D691	8-719-941-09	DIODE DAP202U	
D692	8-719-404-46	DIODE MA110	
D693	8-719-404-46	DIODE MA110	

< IC >

Ref. No.	Part No.	Description	Remark
IC691	8-759-035-90	IC SC7S02F	
IC692	8-759-082-57	IC TC7W04FU	

< RESISTOR >

Ref. No.	Part No.	Description	Remark
R691	1-216-849-11	METAL CHIP 220K 5% 1/16W	
R692	1-216-849-11	METAL CHIP 220K 5% 1/16W	
R693	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R694	1-216-845-11	METAL CHIP 100K 5% 1/16W	

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MISCELLANEOUS
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Ref. No.	Part No.	Description	Remark
2	1-466-988-11	SWITCH UNIT	
7	1-452-419-21	MAGNET	
67	1-751-129-11	WIRE, PARALLEL (FFC) (17 CORE)	
152	1-645-919-11	RELAY (A) FLEXIBLE BOARD	
161	1-466-923-11	SWITCH UNIT (MIC)	
⚠215	A-3263-173-A	OP BLOCK ASSY (KMS-130B)	
230	1-466-925-11	SWITCH UNIT (DETECTION)	
ANT1	1-501-530-11	ANTENNA, TELESCOPIC	
⚠F901	1-532-506-51	FUSE (T6.3A) (AEP, UK, G, IT)	
⚠F901	1-576-193-11	FUSE (6.3A) (US, Canadian)	
⚠F902	1-576-104-11	FUSE (2A) (US, Canadian)	
⚠T901	1-423-772-11	TRANSFORMER, POWER (US, Canadian)	
⚠T901	1-697-020-11	TRANSFORMER, POWER (UK)	
⚠T901	1-697-021-11	TRANSFORMER, POWER (AEP, G, IT)	
M701	1-698-007-12	MOTOR (SPINDLE)	
M702	1-698-008-11	MOTOR, DC (SLED)	
M703	1-698-035-11	MOTOR, DC (LOADING)	
SP101	1-504-415-11	SPEAKER (L-CH) (AEP, UK, G, IT)	
SP101	1-544-653-11	SPEAKER (8CM) (L-CH) (US, Canadian)	
SP201	1-504-415-11	SPEAKER (R-CH) (AEP, UK, G, IT)	
SP201	1-544-653-11	SPEAKER (8CM) (R-CH) (US, Canadian)	

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ACCESSORIES & PACKING MATERIALS
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Ref. No.	Part No.	Description	Remark
	1-501-567-21	ANTENNA, LOOP (LW/MW/SW)	
⚠	1-575-131-11	CORD, POWER (AEP, G, IT)	
⚠	1-590-147-11	CORD, POWER (Canadian)	
⚠	1-690-952-11	CORD, POWER (US)	
⚠	1-751-214-11	CORD, POWER (UK)	
	3-334-173-01	SHEET, PROTECTION	
*	3-388-638-01	CUSHION (A)	
*	3-388-639-01	CUSHION (B)	
	3-756-238-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, GERMAN, SPANISH) (AEP, UK, G)	
	3-756-238-21	MANUAL, INSTRUCTION (ENGLISH) (US, Canadian)	
	3-756-238-31	MANUAL, INSTRUCTION (FRENCH) (Canadian)	
	3-756-238-41	MANUAL, INSTRUCTION (DUTCH, SWEDISH, ITALIAN, PORTUGUESE) (AEP, IT)	
*	3-905-201-01	INDIVIDUAL CARTON	
*	4-941-548-01	LABEL, CLASS (1) (AEP, UK, G, IT)	
	8-916-736-90	REMOTE COMMANDER RMT-CM1/1 SET (US, Canadian)	
	8-916-736-95	REMOTE COMMANDER RMT-CM1/2 SET (AEP, UK, G, IT)	

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The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
		*******************	
		HARDWARE LIST	
		*******************	
#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	
#2	7-685-645-79	SCREW +BVTP 3X6 TYPE2 IT-3	
#3	7-621-775-20	SCREW +BVTT 2.6X5 (S)	
#4	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3	
#5	7-682-903-19	SCREW +PWH 3X6	
#6	7-685-903-21	SCREW +PWH 3X8	
#7	7-627-852-37	PRECISION SCREW +P1.7X1.8TYPE3	
#8	7-685-850-04	SCREW +BVTT 2X3 (S)	
#9	7-685-870-04	SCREW +BVTT 3X5 (S)	
#10	7-623-422-07	LW 3, TYPE B	
#11	7-682-547-09	SCREW +BVTT 3X6 (S) (AEP, UK, G, IT)	
#12	7-685-861-01	SCREW +BVTT 2.6X5 (S)	

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